Aastra DT4X3

Cordless Phones for MX-ONE™

USER GUIDE

AASTRA

1424-EN/LZT103 089 A3 2012-02-23

Copyright

Copyright © Aastra Telecom Sweden AB 2012. All rights reserved.

No parts of this publication may be reproduced, stored in retrieval systems, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the publisher except in accordance with the following terms.

When this publication is made available on Aastra media, Aastra gives its consent to downloading and printing copies of the content provided in this file only for private use and not for redistribution. No parts of this publication may be subject to alteration, modification or commercial use. Aastra will not be liable for any damages arising from use of an illegal modified or altered publication.

Trademark

Aastra is a registered trademark of Aastra Technologies Limited. All other trademarks herein are the property of their respective owners.

Disclaimer

While every effort has been made to ensure accuracy, Aastra will not be liable for technical or editorial errors or omissions contained within this documentation. The information contained in this documentation is subject to change without notice.

Contents

Introduction **2**

1.1 Prerequisite 2

2 Important user information **2**

2.1 Safety Instructions 2

2.2 EX Safety Instructions 5

2.3 Regulatory Compliance Statements 7

2.4 Regulatory Compliance Statements (EU/EFTA only) 7

2.5 Regulatory Compliance Statements (Russia only) 8

2.6 How to Use This Document 8

2.6.1 System Administrator 8

2.6.2 End User 8

2.7 Abbreviations and Glossary 9

2.8 Functions and Accessories 9

3 Descriptions **11**

3.1 DT4x3 DECT Telephone 11

3.1.1 Hot Keys 13

3.1.2 Alphanumeric Keys 14

3.1.3 Icons and Text in the Display 14

3.2 Accessories 18

3.2.1 Desktop Chargers 18

3.2.2 Charging Rack 19

3.2.3 Battery Pack Charger 19

3.2.4 Clips 19

3.2.5 Security Cord 19

3.2.6 Leather Casing 19

4 Basic Operation **20**

4.1 Switch the Handset On/Off 20

4.2 Turn the Audible Signal On/Off 21

4.3 Lock/Unlock the Keypad 21

4.3.1 Lock/Unlock the Keypad in Idle Mode 21

4.3.2 Lock/Unlock the Keypad during a Call 21

4.4 Lock/Unlock the Handset 21

5 Menu Tree **23**

5.1 Calls 23

5.2 Contacts 24

5.3 Profiles 24

5.4 Messaging 25

5.5 My Favourites 25
5.6 Short cuts 26
5.7 Connections 26
5.8 Settings 27
5.9 In Call Menu 28
5.9.1 Additional In Call Functions 28
5.10 Customizing the Menu Tree 29

6 Calling 30

6.1 Incoming Call 30
6.1.1 Answer a Call 30
6.1.2 End a Call 30
6.2 Outgoing Call 30
6.2.1 Pre-Dial 30
6.2.2 Post-Dial with Headset Button 30
6.2.3 Dial Using a Pre-programmed Navigation Key, Hot Key, Soft key, or Headset Button 31
6.2.4 Dial a Number from the Call list 31
6.2.5 Dial Last Called Number with Headset Button 31
6.2.6 Dial the Sender of a Message 31
6.2.7 Dial a Number from the Local Phonebook 31
6.2.8 Dial a Number from the Company Phonebook 31
6.2.9 Dial a Name from the Central Phonebook 32
6.2.10 Number Presentation Restriction 32
6.2.11 Last External Number Re-dial 32
6.3 During a Call 32
6.3.1 Adjust the Volume during a Call 33
6.3.2 Open Contacts during the Call 33
6.3.3 Turn the Microphone on/off during a Call 33
6.3.4 Audio Transfer 34
6.3.5 Start a New Call during Conversation 34
6.3.6 CallBack 34
6.3.7 Ordering Callback for an external number 34
6.3.8 Switch between Calls 35
6.3.9 End a Call 35
6.3.10 Transfer a Call 35
6.3.11 Transfer to New Call 35
6.3.12 Conference Call 36
6.3.13 Call Waiting 36
6.3.14 DTMF 36
6.4 DECT InfoThis submenu is only visible if the Admin menu is activated. See handset's Configuration Manual. Loudspeaking Function 36

7 Alarm Operation 37
7.1 Push-Button Alarm 37
7.1.1 Test Alarm 37
7.1.2 Personal Alarm 37
7.2 Man-Down and No-Movement Alarm 37
7.3 Alarm with Location Information 38
7.4 Alarm with Location Information 38
7.4.1 Alarm with Data 38
7.5 Acoustic Location Signal 38
7.6 Automatic Call after Alarm 39
8 Menu Operation 40
8.1 Calls 40
8.1.1 Call List 40
8.1.2 Missed Calls 42
8.1.3 Call Time 42
8.1.4 Push to Talk Group Call 42
8.1.5 Accept an Invitation 43
8.1.6 Decline a PTT Invitation 43
8.1.7 Call a PTT Group 44
8.1.8 Re-join a Group 44
8.2 Optional Call handling Services 44
8.2.1 Absence Handling 44
8.2.2 Order Absence for Another extension 45
8.2.3 Divert Internal /External calls 45
8.2.4 Internal/External Follow-me 46
8.2.5 Free Seating 47
8.2.6 Personal Number 47
8.2.7 Account Code 47
8.2.8 Parallel Ringing 48
8.2.9 Intrusion on a busy extension 48
8.2.10 Bypass 48
8.2.11 Authorization Codes 48
8.2.12 DISA 50
8.2.13 Group Features 51
8.3 Contacts 51
8.3.1 Call Contact 52
8.3.2 Add Contact 52
8.3.3 Edit Contact 53
8.3.4 Delete Contact 53
8.3.5 Central Phonebook 53

8.4 Profiles 54
8.5 Messaging 55
8.5.1 Inbox 55
8.5.2 Write New Messages 57
8.5.3 Unsent Messages 58
8.5.4 Sent Messages 58
8.6 My Favourites 59
8.6.1 Add Favourites 59
8.6.2 Edit Favourites 59
8.6.3 Delete Services 59
8.7 Short Cuts 60
8.7.1 Define Soft Keys 60
8.7.2 Define Hot Keys 60
8.7.3 Define Navigation Key 60
8.8 Settings 61
8.8.1 Sound and Alert Settings 61
8.8.2 Lock Settings 63
8.8.3 Display Settings 64
8.8.4 Time & Date Settings 65
8.8.5 Answering 66
8.8.6 Change Text size for Messages 66
8.8.7 Change the Menu Language 67
8.8.8 Change Owner ID 67
8.8.9 Alarm Settings 67
8.9 Connections 68
8.9.1 Bluetooth 68
8.9.2 Headset 69
8.9.3 System 69
8.9.4 In Charger Action when in Call 71
8.9.5 In Charger Action when not in Call 71

9 Advanced Functions 73
9.1 Admin Menu 73
9.2 Clear Lists in Charger 73

10 Enhanced Messaging 74
10.1 Voice Mail 74
10.1.1 Receive a Voice Mail 74
10.1.2 Check the Voice Mail inbox 74
10.1.3 One Key Voice Mail Access 74
10.2 Mobile Data 74
10.2.1 Send Mobile Data 74

10.2.2 Send Mobile Data with a Prefix 74

11 Operation Notice 75

11.1 Accessibility and Voice Quality 75

12 System Handling 76

12.1 Software Upgrade and Additional Features 76

13 Maintenance 77

13.1 Maintenance of Batteries 77

13.1.1 Battery Warnings 77

13.1.2 Charge the Battery 77

13.1.3 Charge Spare Batteries 77

13.1.4 Replace the Battery 77

13.2 Easy Replacement of Handset 78

13.2.1 Before Starting Easy Replacement Procedure 78

13.2.2 Easy Replacement Procedure 78

13.3 Attach the Hinge-type Clip 81

13.4 Attach the Swivel-type Clip 81

13.5 Attach Cover for No Clip 82

14 Troubleshooting 83

Appendix A: Bluetooth Headset 85

Appendix B: Telephony Function Codes 90

1 Introduction

This document describes features and settings available for DT4x3 telephones. The telephone is a feature-rich telephone with color display, telephony, messaging, and Bluetooth. It is a highly robust telephone to be used in rough demanding environment, for example the industry and hospital environment.

It is suitable for users dependent of being reachable and/or having a need for mobile voice and messaging features, which makes it ideal for applications where the user needs either one way messaging or to be able to interact with other users. The display enhances and simplifies the use of the handset.

There are three versions of the telephone:

- DT413 Cordless Telephone - with messaging functions,
- DT423 Cordless Telephone - with additional alarm functions for personal security,
- DT433 Cordless Telephone - EX classified version of DT423.

Read the Important User Information before using the telephone.

Depending on the version and configuration of the exchange that your telephone is connected to, it can be that some of the functions and features described in this user guide are not available. There can also be some differences in the way your telephone is programmed. Please consult your system administrator if your need further information Some markets use different codes for some fetaures. In this user guide the features are described using the most common codes.

For software download and parameter set up, read the Installation and Operation Manual for WinPDM/CPDM3 and the handset's Configuration Manual or contact the system administrator.The latest version of the user guide can be downloaded from http:// www.aastra.com

1.1 Prerequisite

Before using the handset, the system administrator must register it in the system, see 8.9.3 *System* on page 69.

2 Important user information

2.1 Safety Instructions

Read this chapter before using the 4x3 handset.

For safe and efficient operation of the handset, observe the guidelines given in this manual and all necessary safety precautions when using the handset. Follow the operating instructions and adhere to all warnings and safety precautions located on the product, the Quick Reference Guide and this User Manual.

This product shall only be used with the following batteries:

- P/N: 660273 Battery
- P/N: 660274 Battery EX

Environmental Requirements DECT Handset

- Always keep and handle your products with care and keep them in a clean and dust-free place. Proper use and care will prolong the product life. Use a soft absorbent tissue or cloth to remove dust, dirt or moisture.
- Always ensure that the phone, battery and charger are used and operated in the environment for which they are designed.
- Only use the handset in temperatures between -10° C to +55° C (14° F to 131° F).
  IMPORTANT: The EX classified handsets are only allowed to be used in temperatures between -10° C to +40° C (14° F to 104° F) in hazardous area.
- Avoid exposing the handset for direct sunlight or close to other heat sources.
- Avoid volume levels that may be harmful to your hearing. Exposure to excessive sound pressure from a handset's earpiece or headset may cause permanently hearing loss.
- Do not expose the handset to open flame or lit tobacco products..
- Keep the handset away from excessive heat and moisture.
- Avoid sudden temperature changes to prevent condensation in the handset. It is recommended to put the handset into an air tight plastic bag until the temperature is adjusted, for example, when entering or leaving a cold/heated building on a warm/cold day.
- Protect your handset from aggressive liquids and vapours.
- The handset may retain small metal objects around the mouthcap or earcap region.
- Keep the handset away from strong electromagnetic fields.
- Do not place a cold handset in a charger.
- Do not attempt to disassemble or alter any part of the phone, the charger(s) or the battery-pack Disassembly or alteration may result n electrical shock or irreversible damage to the equipment. Only a qualified service personnel or an authorized Aastra partner should conduct internal inspections, alterations and repairs.
- Do not drop, throw or bend your products. This may cause malfunction or electric shock.
- Do not paint your product
- Do not use your product in an area where a potentially explosive atmosphere exists, unless the product has been specifically designed and officially approved for such environments.

Power Supply

- Connect the AC power adapter of the charging unit only to the designated power sources as marked on the charger.
- Make sure the cord is positioned so that it will not be subjected to damage or stress.
- To reduce risk of electrical shock, unplug the chargers from any power source before attempting to clean or move it.
- The AC power adapters must not be used outdoors or in damp areas.
- Never modify the cord or plug. If the plug will not fit into the outlet, have a proper outlet installed by a qualified electrician.
- Limit the distance between the mains socket and the cordless phone when charging for easy accessibility.
- As an energy saving measure, disconnect the charger from the main socket after charging.
- When unplugging the mains adapter from the power outlet, make sure that your hands are dry and ensure that you hold the solid portion of the mains adapter
- Do not pull on cables.

Battery and charging

- Do not immerse the battery into water. This could short-circuit and damage the battery.
- Do not expose a battery to an open flame. This could cause the battery to explode.
- Do not allow the metal contacts on the battery to touch another metal object. This could short-circuit and damage the battery.
- Do not leave a battery where it could be subjected to extremely high temperatures, such as inside a car on a hot day.

- Use the Desktop Charger or the wall mounted Charging Rack for charging. Charge the battery for at least one hour the first time you use the battery. Note that the wall mounted battery pack charger has to be used if the battery alone is to be charged.
  IMPORTANT: When charging the EX classified handset, it is only permitted to use a charger marked withDC3-BxxB, DC4-BxxB, or CR3-BxxC on the label. It is not permitted to charge the EX battery pack alone.
- Do not charge a battery when the ambient room temperature is above 40° C or below 5° C (above 104° F or below 41° F). Charging beyond these conditions may impair the battery performance and shorten the life cycle.
- Batteries are consumable products and degenerate over time. To maintain performance and security it is recommended to replace batteries every 2-3 years depending on usage.
- Do not attempt to take a battery apart.
- Do not disconnect the battery unless it needs to be replaced.
- Do power the handset off before removing the battery.
- Use of power sources not explicitly recommended may lead to overheating, reduced battery performance, distortion of the equipment and fire or other damages.
- Cordless phones are equipped with Li-Ion batteries. In a complex infrastructure, the talk and standby time may differ, due to the consequence of the increase in signaling.
- The battery in your product is designed to withstand many charge cycles.
- Improper charging can cause heat damage or even high pressure rupture.
- Observe proper charging polarity.
- Do not solder lead wires directly onto the battery.
- Do not allow water to come into contact with the battery
- Never heat or dispose of the battery into a fire, which, or else, may cause leakage, burst or fire.
- Remove the carrying case from the product while in charger.
- Do not cover the product while being charged.Do not charge the phone in a closed cabinet or drawer. The charging of the battery is a chemical process and causes the battery to become warm during charging. Make sure the environment in which the phone is charged, is well vented.
- The cordless phone can be charged either when switched on or off.
- Do not connect the battery's positive and negative leads altogether in any circumstances.
- Do not strike or drop the battery. It may cause damage to the battery.
- Do not use battery packs from different types or of different capacities.
- The battery is to be stored in a dry cool place, with the ambient temperature of 0°C to +20°C (32F to 68F) for best performance. Even when stored under optimal conditions the battery capacity will decrease over time.
- The battery continues to discharge a minimal portion of its power, even if the product is switched off or the battery is removed.

Battery Disposal

Defective batteries must be returned to a collection point for chemical waste disposal.

Warnings

Smoke or fumes

- Stop operating the products and turn off immediately in case of smoke and fumes. Unplug the mains adapter and remove the batteries from the phone immediately. Continued operation may result in fire or electrical shock.

LCD

- If liquid crystal display breaks, avoid injury by not allowing the liquid crystal to come into contact with eyes, skin or mouth. Prevent the liquid crystal from leaking out of broken glass.

Preventing malfunction

- Never place the equipment in close proximity of electric motors, welding equipment or other devices generating strong (electro) magneticfields. Exposure to strong (electro) magneticfields may cause malfunction and corrupt the communication.
- Moving the equipment rapidly between warm and cold temperatures may cause condensation (water droplets) to form on its internal and external surfaces. Water droplets may cause malfunction of the

equipment and corrupt or end communication or damage the equipment. When condensation is noticed, stop using the equipment. Switch off the phone, remove the battery and unplug the mains adapter from the power outlet. Wait until the moisture evaporates from the equipment before putting it in operation again.

- Avoid accidental drop of the phone. Use the clip, security clip or carrying case specified for carrying purposes of the phone. Avoid squeezing the phone between furniture and your body when carrying the phone in your pocket or attached to clothing.

2.2 EX Safety Instructions

Intrinsically safe use:

0470

SIRA 10ATEX2072 IECEx SIR 10.0038
II 2G, II 2D Ex ib IIC T4 Gb Ex ib IIIC T55°C Db IP65
Tamb= -10° C to +40° C

НАНИО ЦСВЭ РОСС SE.ГБ05.В03353
Ex ib IIC T4 Gb X
Ex ib IIIC T55°C Db X
-10° C ≤ Ta ≤ +40 °C

2011 2368858 I.S. for Class I, Zone 1,
AEx ib IIC T4
Tamb= -10° C to +40° C

Non-incendive use:

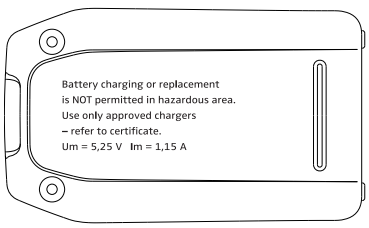
2011 2368858 IP 64 T4 Non-Incendive for
Class I, Div 2, Groups A, B, C, D
Tamb= -10° C to +40° C

SPECIAL CONDITIONS OF USE

The symbol **X** placed after the explosion-proof marking indicates that during the use of the handset the following special conditions shall be met:

- The handsets may only be used with a lithium-ion battery having electric characteristics as shown in the User Manual.
- Do not charge or disconnect the battery in the hazard area.
- Use the charging device specified in the User Manual.

Charging the EX Battery


Battery charging or replacement
is NOT permitted in hazardous area.
Use only approved chargers
– refer to certificate.
Um = 5,25 V Im = 1,15 A

P/N: 660274/xx
Type: Li-ion Battery 3.7 V 920 mAh 3.4 Wh
Caution
yyWww
DO NOT disassemble
DO NOT short external contacts
DO NOT expose to temperatures
above 50°C or 122 °F
Only to be used with specified chargers
Dispose of Properly
S/N: xxxxxxx
Ascom (Sweden) AB,
Göteborg, SE-402 76, Sweden
Only to be used in DH5-xBxxxx

When using in hazardous/classified areas, use an approved battery pack only. The battery pack must be marked with art. no.: 660274 on the label.

Charging parameters: Um = 5.25 V, Im = 1.15 A

For approved battery types, see certificate IECEx SIR 10.0038 or Sira 10ATEX2072 and following supplements.

IMPORTANT: Battery charging or replacement is NOT permitted in a hazardous area. When charging the EX classified handset, it is only permitted to use a charger marked with DC3-BxxB, DC4-BxxB or CR3-BxxC on the label. It is not permitted to charge the EX battery pack alone.

Fastening/Removal of the EX Battery

Before using the handset the first time, lift the battery pack upwards and remove the protection tape. Insert the battery pack and fasten it using the provided screws that require the provided special tool Battery pack opener.

To remove the battery pack, use the opener and untighten the screws. Remove the battery pack by lifting it upwards. To fasten the battery pack use the opener and tighten the screws.

IMPORTANT: Removing the battery pack is NOT permitted in a hazardous area.

Headset in Hazardous Area

In hazardous areas, it is only allowed to use the EX classified headset adapter (art. no.: 660281) in combination with an EX classified Peltor headset. The Peltor headset must be compatible with the output parameters of the headset connector as follows:

U_o = 4.2 V
I_o = 169 mA
P_o = 629 mW
C_o = 2.2 µF
L_o = 2.2 µH

Attention

- The product is housed in an enclosure that meets IP65. However, the EX classified handset is not intended to be immersed in dust or water.

Note: Sira has tested the enclosure to IP64.

- In the case of suspected damage, do not use the EX classified handset in a hazardous area.
- In combination with EX classified handset, use approved battery types only. The battery must have the safety text engraved in the plastic and must have the article number 660274.

- Make sure that the product marking corresponds to the site requirements.
- Before installation consult the product documentation.
- National safety rules and regulations have to be observed.
- Do not use accessories to the product without ensuring that they are suitable for use in a hazardous area.
- Modification of the product is not permitted.
- Product repair has to be done at authorised repair shops only.

2.3 Regulatory Compliance Statements

Frequency Range

The handset is a radio transmitter and receiver. When it is on, it receives and sends out radio frequency (RF) energy. The handset operates on different frequency ranges depending on market and employs commonly used modulation techniques:

EU	1880-1900 MHz
USA	1920-1930 MHz
LA:	1910-1930 MHz
BR:	1910-1920 MHz
--:	1900-1920 MHz

Chemical Resistance

The alpha and numeric characters printed on the exterior of the handset have been tested and found resistant to chipping, fading or wearing off when the handset is treated with common cleaners and disinfectants or perspiration. The following chemicals have shown no harmful effect:

- 3% Hydrochloric Acid
- M-alcohol (85% Methylated Ethanol)
- 60% Chlorhexidin 0.5mg/ml

Acetone can be damaging to the plastic casing of the handset and should not be used.

Bluetooth Qualified Design ID

Bluetooth QD ID: B016451

2.4 Regulatory Compliance Statements (EU/EFTA only)

This equipment is intended to be used in the whole EU & EFTA.

This equipment is in compliance with the essential requirements and other relevant provisions of R&TTE Directive 1999/5/EC. The Declaration of Conformity may be consulted at:

http://www.aastra.com/sdoc

The handset is marked with the label CE

this handset.

2.5 Regulatory Compliance Statements (Russia only)

Telecom/Radio

Corresponds to "Rules for the use of terminal equipment connected to the two-wire analogue interface of the general purpose telephone communication network", supplemented by Russian Ministry of Infocommunications regulation of 29.08.2005 in No. 102 (registered by Russian Ministry of Justice 02.09.2005, registration no. 6982).

Sanatory

MSanPin 001-96 "Sanitary norms of permissible levels for physical factors during use of domestic articles"; GN (Hygienic Norms) 2.1.6.1338-03 "Maximum Allowable Concentrations (MACs) of Pollutants in the Air of Residential Settings", SanPin 2.1.8/2.2.4/ 1190-03 "Hygiene requirements on the installation and implementation of terrestrial mobile radio communication systems".**Modifications**

Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

2.6 How to Use This Document

2.6.1 System Administrator

Configuration of some functions require WinPDM/CPDM which is administrated by the system administrator. The following chapters refer to the handset’s Configuration Manual for more information on how to configure these functions.

- 4.3 *Lock/Unlock the Keypad* on page 21
- 5.9.1 *Additional In Call Functions* on page 28
- 6.3 *During a Call* on page 32
- 7 *Alarm Operation* on page 37
- 8.2 *Optional Call handling Services* on page 44
- 8.3 *Contacts* on page 51
- 9 *Advanced Functions* on page 73
- 12 *System Handling* on page 76

2.6.2 End User

For end-users, it is recommended to read the following chapters to getting started.

- 3 *SDescriptions* on page 13
- 4 *Basic Operation* on page 20

2.7 Abbreviations and Glossary

ATEX/IECEx	ATmosphères EXplosibles Standard/guideline for explosion protection in the industry. IECEx is the same as ATEX for the rest of the world (not EU/EFTA). In this document, EX refers to ATEX/IECEx.

ELISE3	Embedded LInux SErver: A hardware platform used for Unite modules.
IPDI	International Portable DAM Identity DAM (DECT Authentication Module) See IPEI for more information.
IPEI	International Portable Equipment Identity IPEI/IPDI is needed to enable network subscription of the handset. At delivery of the handset, IPEI and IPDI are the same and either can be used for network subscription. If one handset is replaced with another using the Easy replacement procedure, the IPDI will be exchanged and IPEI and IPDI will no longer be the same. If the IPEI and the IPDI differ, the IPDI shall be used for network subscription.
PBX	Private Branch Exchange: handset system within an enterprise that switches calls between local lines and allows all users to share a certain number of external lines.
WinPDM	PDM Windows Version: An application, running on a PC, for management of portable devices, charging racks, etc. .
CPDM3	Centralized Portable Device Manager: A system version with more features than the PDM. It runs on a ELISE3 hardware and is manageable from a pc with network communication.

2.8 Functions and Accessories

Functions	**DT412**	**DT423**	**DT433**
Local phonebook	x	x	x
Company phonebook[1]	x	x	x
Central phonebook[2]	x	x	x
Profiles	x	x	x
Personalized menus[1]	x	x	x
Loudspeaking function	x	x	x
Headset connector	x	x	x
Vibrator	x	x	x
Microphone On/Off during a Call	x	x	x
SMS (Short Message Services)[2]	x	x	x
Acknowledge	x	x	x
Voice Mail[2]	x	x	x
2 programmable soft keys	x	x	x
9 programmable hot keys	x	x	x
Programmable navigation key	x	x	x
Push Button Alarm[2]	-	x	x

Functions	DT412	DT423	DT433
Man-down and No-movement alarm[2]	-	x	x
Send Alarm with Data[2]	-	x	-
Send Data with Prefix[2]	-	x	-
Acoustic Location Signal (ALS)[1]	-	x	-
Location, Base Station[1]	x	x	x
Centralized Management[2]	x	x	x
Push To Talk (PTT)[1]	x	x	x
Downloadable Languages[1]	x	x	x
Easy replaceable battery	x	x	-
Easy replacement of handset	x	x	x
Clear lists in charger	x	x	x
Site Survey tool	x	x	x
Bluetooth	x	x	x

1.This function/feature requires PDM/CPDM3
2.This function/feature is system dependent.

Accessories	DT412	DT423	DT433
Basic Charger	x	x	x
Advanced Charger	x	x	x
Charging rack	x	x	x
Battery Pack Charger	x	x	-
Spare Battery	x	x	-
Leather Casing, incl. swivel-type clip	x	x	x
Spare Clip	x	x	x
Swivel-type Clip	x	x	x
Cover for no clip	x	x	x
Security cord	x	x	x
Headset with Microphone on Boom[1]	x	x	-
Peltor Hearing Protection Headset	x	x	-
Headset adapter for Mic on Boom	x	x	-
EX-classified headset adapter for standard and EX-classified Peltor headset	x	x	x

1.Requires the headset adapter for Mic on Boom.

3 Descriptions

3.1 DT4x3 DECT Telephone

IMPORTANT: The handset may retain small metal objects around the mouth cap or earcap region.

Case

The plastic cover parts are made of durable PC/ABS material.

Antenna

The antenna is integrated inside the handset.

Loudspeaker

The handset has a separate loudspeaker for the loudspeaking function. It is placed on the back side of the handset.

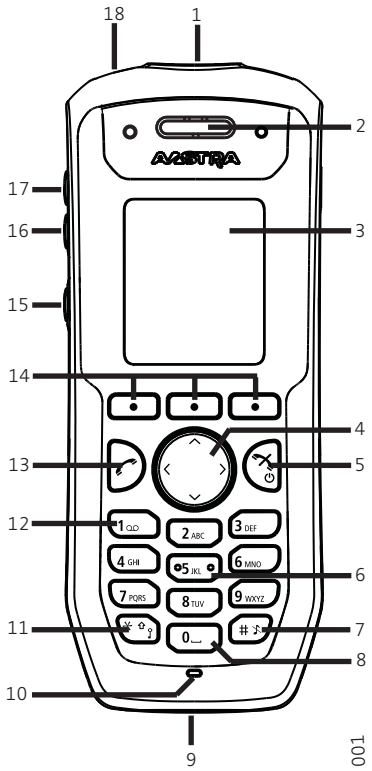
Battery

The battery is a rechargeable Li-Ion battery, placed under a battery cover. See 13.1.4 *Replace the Battery* on page 77.

The battery is fully charged within four hours. See 13.1.2 *Charge the Battery* on page 77.

The non-EX classified battery can be charged separately with a battery pack charger. See 13.1.3 *Charge Spare Batteries* on page 77.

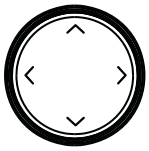
IMPORTANT: When charging the EX classified handset, it is only permitted to use a charger marked with DC3-BxxB, DC4-BxxB or CR3-BxxC on the label. It is not permitted to charge the EX battery pack alone.



1 Push button (DT423/DT433 only)
The button is placed on the top side of the handset. The Push button is used for sending alarms, see 7.1 *Push-Button Alarm* on page 37.

2 Earpiece speaker

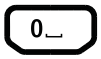
3 Colour display
The full graphic type display is 128 pixels wide and 160 pixels high. The display has multiple colours and backlighting.

4  Four-way navigation key
Use this key to step in the menu and when working in text mode. ‹, ›, ^, and ˇ are used for stepping left/right and up/down in the menu. The navigation key can be programmed, the ^ is by default a short cut to the Inbox, and ˇ is a short cut to Call contact. See also 8.7.3 *Define Navigation Key* on page 60. During a call it is possible to increase/decrease the volume by pressing ^ and ˇ.

5 On-hook and On/Off key
Combined button; to end a call, to return to idle mode, and to switch the handset on/off by long press.

6 Tactile indicators
There are two tactile indicators to indicate the centre of the key pad

7 Sound off key
A long press on the key in idle mode, changes between ring signal on/off, At incomming call, a long press on the key silencing the ring signal.

8  Space
To add space between text

9		Multi-purpose connector The connector is used for battery charging, software download, configuration and connection of an IP 65 classified headset connector.
10		Microphone The microphone is placed on the front bottom side of the handset.
11		Key lock and Upper/Lower case key This key is to lock the keypad in combination with the soft key "Lock". This key is also for switching between upper/lower case and digits.
12		Voice mail access[1] A quick access to the handset's Voice mail. See also 10.1 *Voice Mail* on page 74.
13		Off-hook key To answer a call, to pre-dial a number, and as a short cut to the Call list.
14		Soft keys The three Soft keys are located just beneath the display and the function of each Soft key is indicated by text in the display just above the keys. In idle mode, the middle and right Soft key can be used for specific functions defined by the user of the handset. See 8.7.1 *Define Soft Keys* on page 60.
15		Mute and PTT button A long press on the Mute button in idle mode, changes between ring signal on/off. At incomming call, a long press on the Mute button silencing the ring signal. During a call, a long press on the PTT button changes between microphone on/off.
16		Volume button (down) To decrease the speaker earpiece, headset, and the loudspeaker volume. The button is placed on the upper left side of the handset.
17		Volume button (up) To increase the speaker earpiece, headset, and the loudspeaker volume. The button is placed on the upper left side of the handset.
18		LED Indicates incoming call, messaging, low battery, and charging.

1. This is a system dependent feature.

3.1.1 Hot Keys

Any key "0", "2" - "9" can be set to a Hot Key. A long press on any of these numbers in idle mode are by default a short cut to the Call contact list. The list is in alphabetic order, and depending on which key that is pressed is dependent on where in the list the contact appears.

A Hot Key can be programmed to give access to frequently used functions such as dialling a specific number, a short cut on the menu, or sending an SMS. See 8.7.2 *Define Hot Keys* on page 60.

3.1.2 Alphanumeric Keys

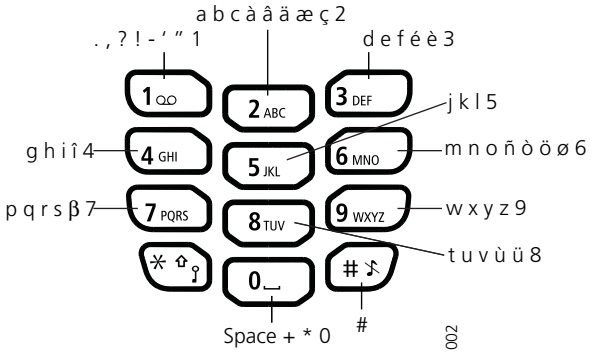


Figure 1. Available Characters.

In Idle Mode, and Number Input Mode

- A short press on a key enter the digits “0” - “9” and the characters * and #.
- Enter a pause in number input mode by a long press on . A pause is indicated by a "P" in the display.
- A long press on changes the tone sender on. Tone sender on is indicated by a "T" in the display.

In Text Input Mode

- A short press on a key 0-9, displays the first available character on that specific key. The marked character is selected after a timeout, or when another key is pressed.
- To change to upper/lower case, press before entering the character.
  The can also be used to display only the digits.
- To add space in the text, make a short press on key 0.
- The first character entered in a message, or when adding/editing a name in the Contacts menu, will be an upper level character followed by lower level characters, unless is pressed before entering the character. To switch between "Abc", "ABC", "abc", and "123", press .

A long press on displays special characters.

3.1.3 Icons and Text in the Display

All functions and settings available to the user are shown as icons and text in the display. The icons and text in the display indicate functions and settings the user has access to. The display normally displays date and time, the Owner ID and handset number. The Owner ID can manually be set by the user.

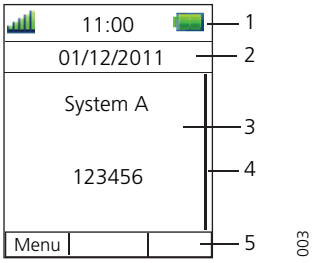


Figure 2. Example of a display configuration in idle mode.

- The Status bar (1) is used for icons which give the user information about signal strength, missed call, new message, phone lock, key lock, sound off, time and battery status. This row is always visible in all screens.
- The Header bar (2) displays the current date, headset connection, Bluetooth connection, and system connection.
- The Active area (3) are used for information such as the name of the system to which the handset is connected to. A user identity provided from the system and/or an Owner ID can also be displayed if configured in the Settings menu. This is also the area for dialog window text. For example "missed calls" or to confirm an action.
- The Scroll bar (4) is placed to the right of the "Active area". It becomes visible when a menu screen has more than six menus, or if the complete text in a message cannot be displayed on the screen simultaneously.
- The Soft key bar (5) is used for Soft keys which can be used as short cuts for functions in the handset. See 3.1 *DT4x3 DECT Telephone* on page 11.

Icons

	“Signal strength” icon is visible in the upper left corner. The staples shown in display depends on the signal strength.
	“Full battery” icon is displayed in upper right corner.
	"Low battery warning” icon is shown when the battery has 10% or less remaining capacity left.
	"Empty battery warning" icon is flashing when the battery has 5% or less remaining capacity left.
	“Sound off” icon is displayed when the Sound off key or Mute button is pressed.
	"Microphone off" icon indicates a silenced microphone. It is displayed after a long press on the Sound off key or Mute button during a call.

“Loudspeaking” icon is displayed in the soft key bar during a call. Pressing this icon will turn on the loudspeaker.

“Loudspeaking off” icon is displayed after the soft key for Loudspeaking icon has been pressed. Pressing this icon will turn off the loudspeaker.

“New message” icon indicates that a new text message (or messages) has arrived. The icon remains in the status bar until all new messages in the inbox are read.

“Voice mail message” icon is displayed in the status bar when there are voice mails. The icon remains until voice mail has been listened to.

“Voice mail message” icon is displayed in the inbox when there are voice mails. The icon remains until voice mail has been listened.

“Read message” icon in front of a message shows that this message once has been read.

"Unsent message" icon

"Sent message" icon

“Key lock” icon indicates a locked keypad.

"Locked entry" icon indicates that the contact can not be edited or deleted by the user.

"Phone lock" icon indicates a locked handset.

“Bluetooth” icon indicates that Bluetooth is enabled.

“Bluetooth headset” icon indicates that a Bluetooth headset is connected to the handset.

“Headset” icon indicates that a corded headset is connected to the handset.

“Outgoing call” icon is added to all outgoing calls in the call list.

“Incoming call” icon is added to all answered calls in the call list.

"Push to talk" icon is added to all incomming, outgoing, missed and answered PTT calls in the call list/missed calls.

“Missed call” icon is added to all missed calls in the call list and is also displayed in the status bar.

"PDM/CPDM3 communication" icon is visible when handset is communicating with PDM/CPDM3 via advanced charger.

"Man-down" icon indicates that the Man-down alarm is enabled.

"No-movement" icon indicates that the No-movement alarm is enabled.

"Profile active" icon

"Alarm" icon indicates that the handset is a DT423/DT433.

Menu Icons

The ”Contacts” menu contains all names/numbers in the local phonebook. In addition, a company phonebook with up to 1000 entries can be downloaded to the phone via the PDM. It is also possible to access a central phonebook[1] from the "Contact" menu.

The "Services" menu contains menu short cuts used to customize an own menu.

The “Messaging” menu contains all message handling such as reading and writing messages.

The “Calls” menu contains call lists, call time, and call services. Call services is configured in the PDM.

The “Connections” menu contains Bluetooth connection, headset selection, System selection, and In charger selection.

The “Settings” menu contains personal handset settings such as changing the ring volume, selecting language, etc.

The”Short cuts" menu contains short cuts for the Soft keys, Hot keys, and Navigation keys.

The "Profiles" menu contains possibility to add four different profiles. By default there is no profile

1. This is a system dependent feature.

3.2 Accessories

3.2.1 Desktop Chargers

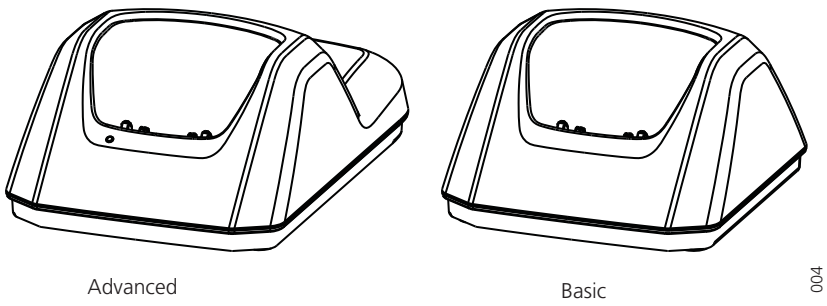


Figure 3. Desk Chargers for the Handset

There are two desk chargers available; one basic that only charges the handset, and one with advanced functionality to download new software and to synchronize parameters. The handset is fully operational while placed in the charger.

The charger is delivered with a plug-in power supply and is connected into an ordinary wall socket. For more information, see the advanced charger's *Installation and Operation Manual.*

IMPORTANT: When charging the EX classified handset, it is only permitted to use a charger marked with DC3-BxxB or DC4-BxxB?on the label.

Note: Only use the charger within the temperature range of +5° C – +40° C.

3.2.2 Charging Rack

The Rack PDM Charger is used for charging several handsets, to synchronize parameters, and for software download.

IMPORTANT: If using the Rack PDM charger for charging EX classified handsets, it is only permitted to use a rack charger marked with 87L00008AAAon the label.

The built in power supply can charge up to six handsets.

See the Charging Rack's *Installation and Operation Manual.*

3.2.3 Battery Pack Charger

The Battery Pack Charger is used for charging up to six spare batteries.

IMPORTANT: It is not permitted to charge EX classified batteries using the battery pack charger.

See the battery pack charger's *Installation Guide.*

3.2.4 Clips

Tip: It is possible to use the handset without any clip on, see 13.5 *Attach Cover for No Clip* on page 82. The belt clips cannot be used if the handset shall be placed in a case. See 3.2.6 *Leather Casing* on page 19 for more information.

There are two belt clips available:

- Hinge-type clip?
  ?To prevent the handset from slipping out of for example pocket or belt, see 13.3 *Attach the Hinge-type Clip* on page 81.
- Swivel-type clip
  To be able to rotate without slipping out from for example pocket or belt, see 13.4 *Attach the Swivel-type Clip* on page 81.

3.2.5 Security Cord

The security cord is 800 mm long. The security cord is attached directly to the handset.

3.2.6 Leather Casing

The leather casing is especially designed for the handset. The casing comes with a swivel type belt clip and the handset is fully operational while placed in the casing.

.

4 Basic Operation

Tip: For information on how to answering/ending a call, see 6.1 *Incoming Call* on page 30.

4.1 Switch the Handset On/Off

Switch on the Handset

1 Press and hold until the handset vibrates and the display lights up.

2 A DT413/DT423/DT433 Switch on? dialog window is displayed. Confirm by pressing "Yes".

Switch off the Handset

Prerequisite: The handset is in idle mode:

Tip: While in a menu, press to return to idle mode.

1 Press and hold .

2 A Switch off? dialog window is displayed. Confirm by pressing "Yes".

4.2 Turn the Audible Signal On/Off

Prerequisite: The handset is in idle mode:

Tip: While in a menu, press to return to idle mode.

A long press on , or , changes between ring signal on/off.
The icon indicates a silenced handset.

4.3 Lock/Unlock the Keypad

4.3.1 Lock/Unlock the Keypad in Idle Mode

To prevent accidentally pressing keys and making a call, the keys can be locked.

Lock Keypad

1 Press .

2 Press "Lock".

Unlock Keypad

1 Press .

2 Press "Yes".

Note: It is possible to answer/end a call while the keypad is locked. If the handset is configured via the WinPDM it is also possible to call a pre-defined emergency number while the keypad is locked. See handset's *Configuration Manual.*

4.3.2 Lock/Unlock the Keypad during a Call

To prevent accidentally pressing keys, the keys can be locked during a call. This can be useful when a headset is used and the handset is attached to a pocket or belt.

Lock keypad

1 Long press .

2 Press "Lock".

Unlock keypad

1 Press .

2 Press "Yes".

Tip: It is possible to use the volume buttons and the mute button during the call. If the DT423/ DT433 is used, it is also possible to use the alarm button.

4.4 Lock/Unlock the Handset

The handset can be protected for unauthorized use. If this function is activated, a PIN code has to be entered for example to switch on the handset, to answer an incoming call etc. The default phone lock code (0000) can be changed to any 4 - 8 digit personalized code.

Note: If configured in the handset, it is possible to call a pre-defined emergency number while the handset is locked. See the handset's Configuration Manual. If the DT423 or DT433 is used, it is also possible to use the Alarm button.

1 Press "Menu".

2 Select .

3 Select “Locks”.

4 Select "Phone lock"

5 Select “Auto phone lock”.

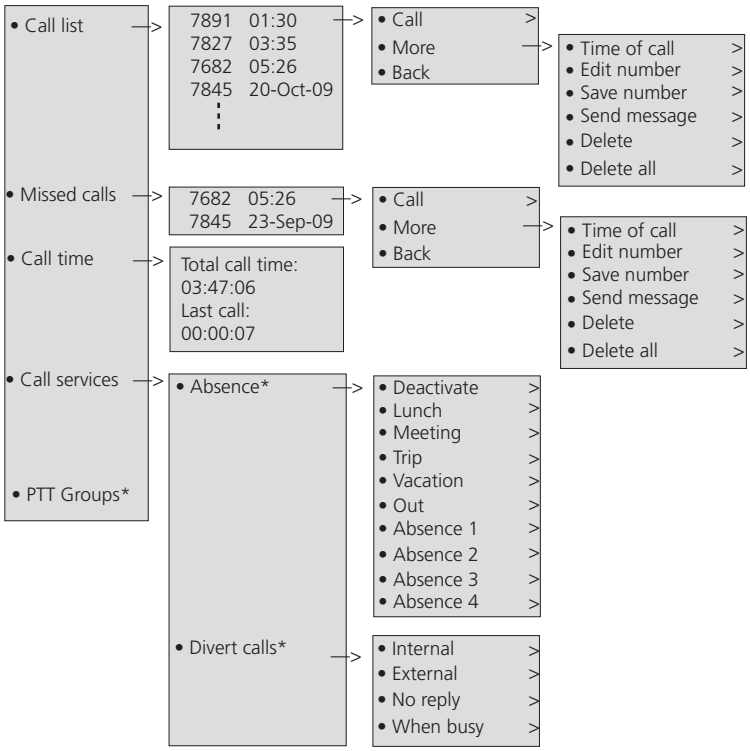
6 Select “On”, "On in charger", or "Off".

7 Enter PIN code. If the PIN code is forgotten it can be removed by the system administrator.

8 Press "OK".

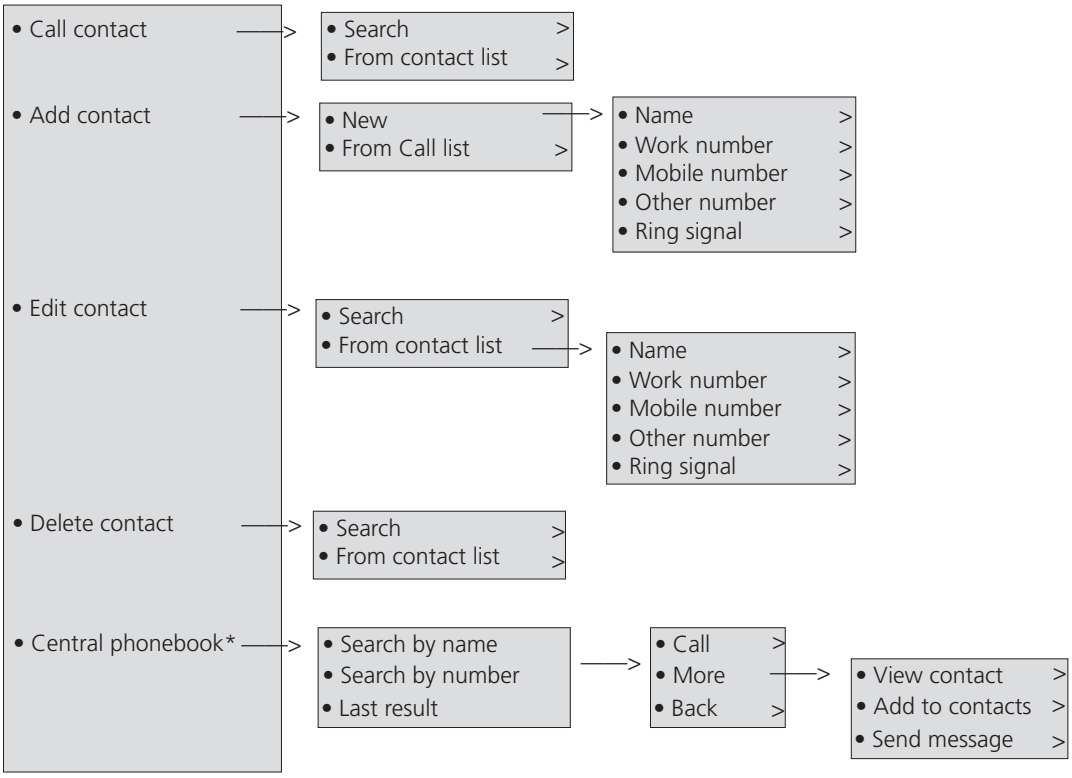
5 Menu Tree

5.1 Calls



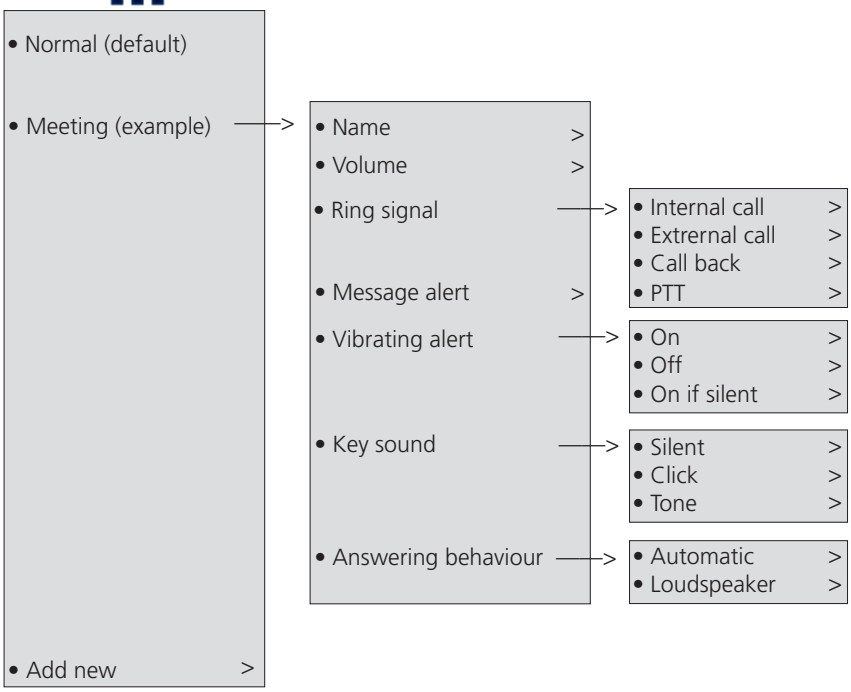
*) Visible if defined in the PDM

5.2 Contacts



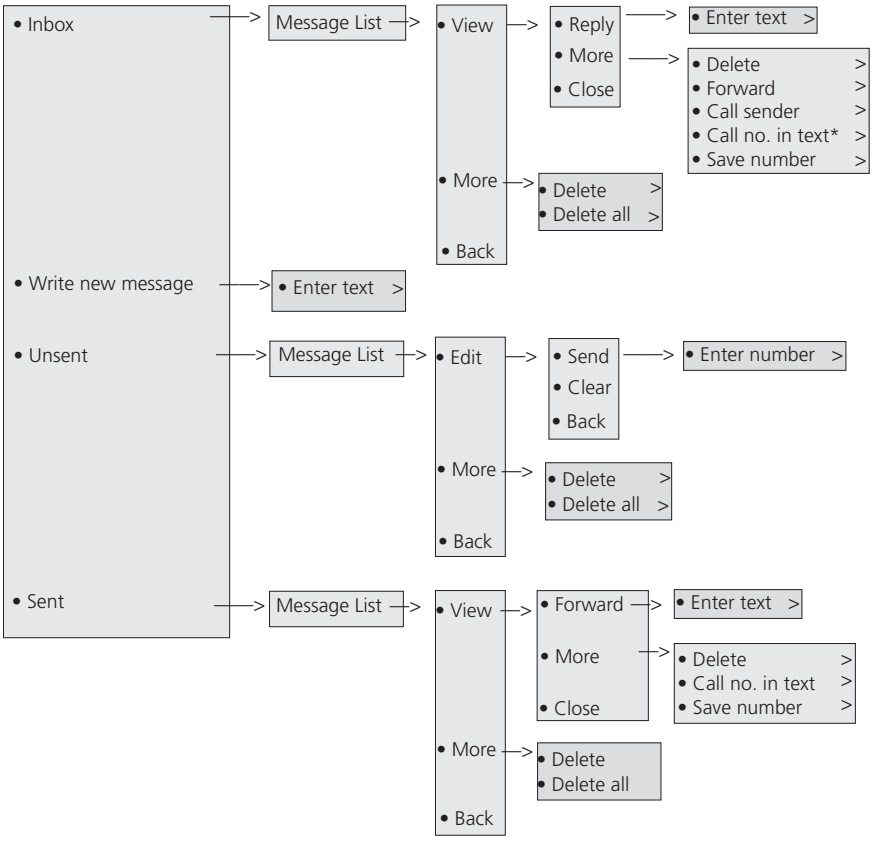
* System dependent

5.3 Profiles



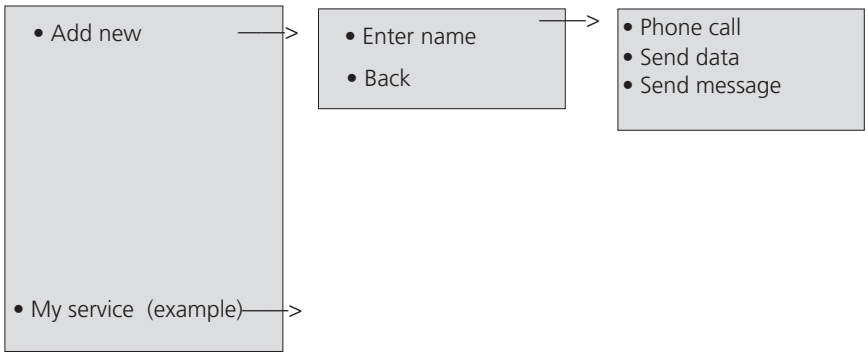
The example profile does not contain all applicable settings.

5.4 Messaging

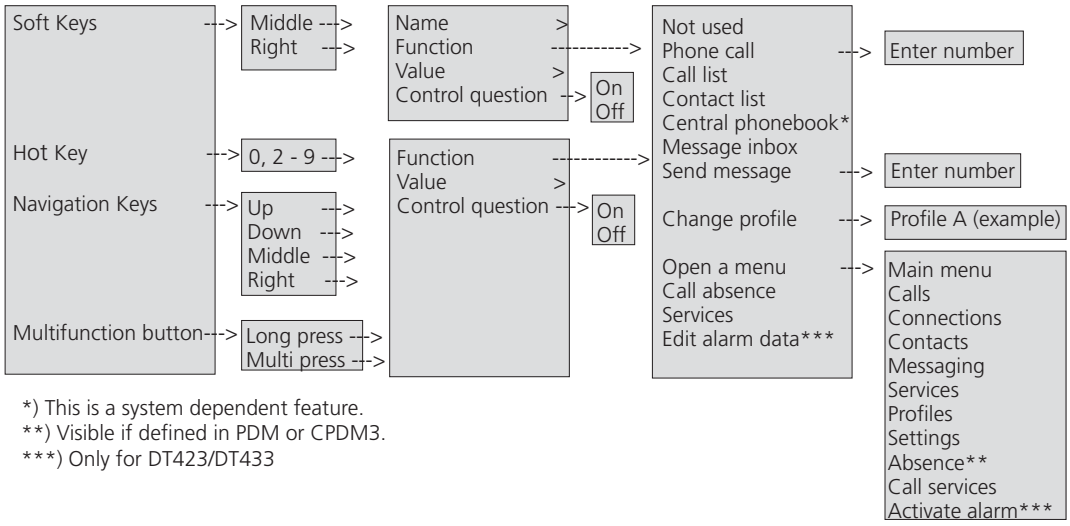


*) Visible if the number consists of minimum 3 digits.

5.5 Services

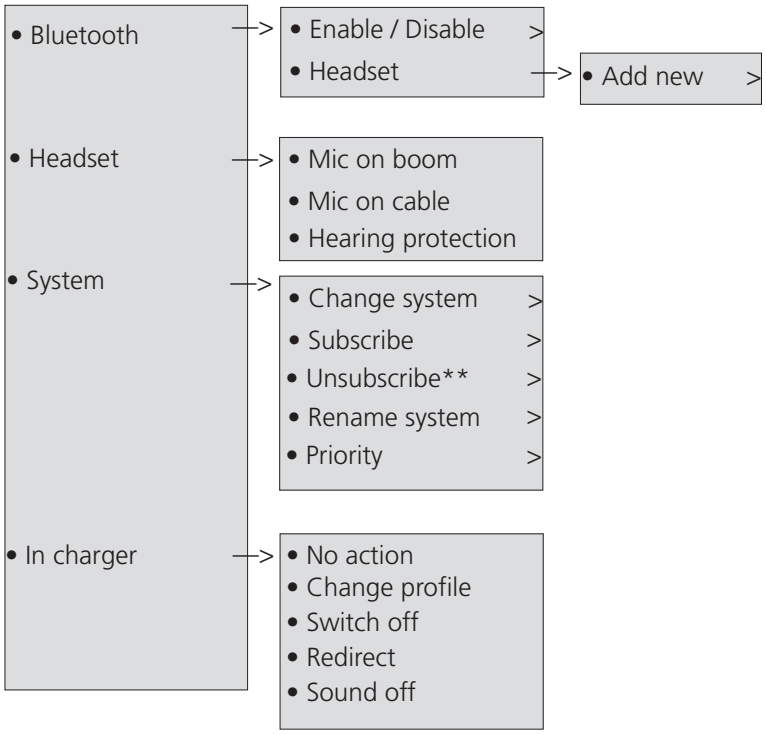


5.6 Short cuts



*) This is a system dependent feature.
**) Visible if defined in PDM or CPDM3.
***) Only for DT423/DT433

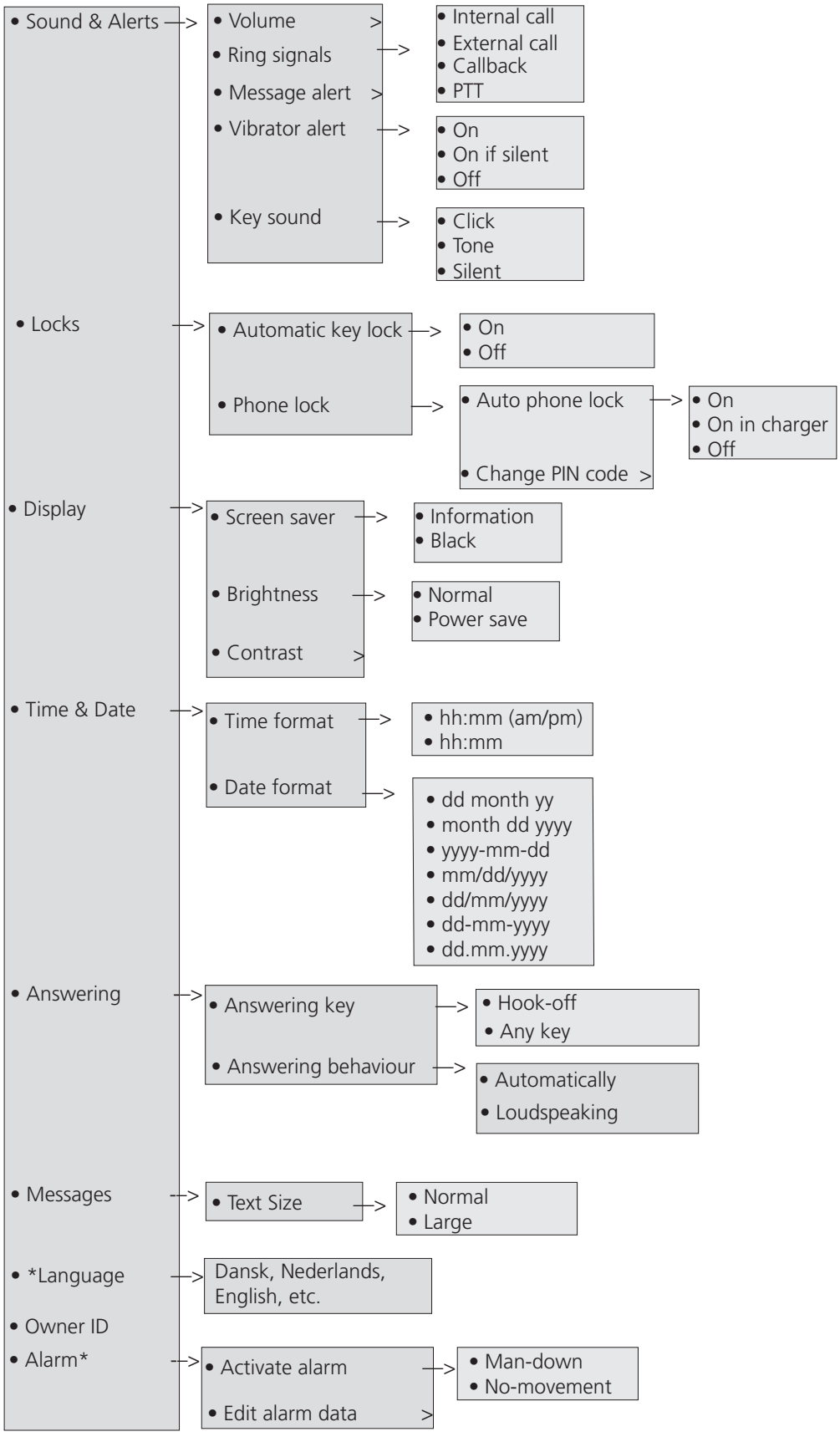
5.7 Connections



*) This is a license dependent feature

**) It is not possible to unsubscribe a protected system via the System menu. Unsubscribtion of the system must be performed via the Admin menu or the DECT system.

5.8 Settings



*) Only for RT433/RT433

5.9 In Call Menu

The In Call menu can be accessed during an ongoing call by pressing the soft key "More".

If the handset is configured via WinPDM/CPDM3, it is possible to access a certain function in the In call menu directly by pressing the right Soft key.

Note: If the handset is configured via WinPDM/CPDM3, it is possible to call a pre-defined emergency number while the handset is locked or the keypad is locked. If calling the emergency number from a locked handset, it is only possible to access the Microphone on/off function in the In Call menu. However, the entire In call menu is accessible when calling the emergency number from a handset with locked keypad.

Contacts[2]	>	
Microphone on/off	>	
Audio transfer[1]	>	
New call[2]	>	Call
		"Phonebook access"
		Cancel
Switch[2]	>	
End call[2]	>	
Transfer[2]	>	
Transfer to new call[3]	>	Call
		"Phonebook access"
		Cancel
Conference[2]	>	
Call back[2]	>	
Call waiting[2]	>	
DTMF[2]		
DECT info[4]	>	Link
		System
General purpose 1 name[1]	>	
General purpose 3 name[1]	>	

1.Visible if a Bluetooth headset is connected.
2.Visible if enabled/defined in handset via PDM/CPDM3.
3.Only visible when the parameters "New call" and "Transfer" are defined in handset via PDM/CPDM3.
4.Visible if the Admin menu is activated.

5.9.1 Additional In Call Functions

Besides the default In Call functions, it is possible to define 10 extra system specific codes/ general purposes. See the handset’s Configuration Manual.

5.10 Customizing the Menu Tree

The menu tree can be customized by hiding some of the functions that are available but for example not in use. Which functions that should be hidden are defined in the PDM. See the handset's Configuration Manual.

6 Calling

6.1 Incoming Call

The flashing LED, accompanied by a ring signal and/or a vibrating handset, gives a notice of a call. Ring signal and vibrator can be disabled, see 8.8.1 *Sound and Alert Settings* on page 61.

The calling party's handset number or name is shown. The name will be shown if the calling party's handset number is stored in the local phonebook.

6.1.1 Answer a Call

When the signal sounds, press to answer the call, or press to answer the call in loudspeaking mode[1]. The name/number of the calling party is displayed if calling line information is available.

Tip: When a headset is connected to the handset, the headset button can be used to answer the call. In addition, it is possible to configure the headset button with a specific function, such as post-dial, dial last called number, or dial a predefined number. See the handset's Configuration Manual.

Other answering methods can also be set in the Settings menu, see 8.8 *Settings* on page 61. The answering methods are; Automatically and Loudspeaking.

When Automatically is enabled, all incoming calls will be connected automatically.

Call Pick-Up

To answer a call to a phone in another room

1 Dial the number and press

2 When you hear a busy tone, Press **8** (France and New Zealand: Press **4** Sweden: Press **6)**

6.1.2 End a Call

A press on ends the call. The duration of the call is shown in the display. The total time of the call can also be retrieved from the Calls menu > Call time.

6.2 Outgoing Call

6.2.1 Pre-Dial

Enter the number and press to get the line. The number is shown on the display while dialling. If needed, press "Clear" to erase the number. By using the navigation key it is possible to step and add/delete a digit in a number.

It is possible to turn on the tone sender in a pre-dialled number by long pressing .

6.2.2 Post-Dial with Headset Button

If a headset is used, it is possible to press its button[2] to get a ring tone and then enter the number to be dialled.

1.When Bluetooth is enabled, the loudspeaker audio is lowered due to current limitations in the intrinsically safe handset.

6.2.3 Dial Using a Pre-programmed Navigation Key, Hot Key, Soft key, or Headset Button

A Navigation key[2], Hot key[1], Soft key[1], or a headset button[3] can be programmed with a number. Press the pre-programmed key/button to dial the number. The call will automatically be connected.

6.2.4 Dial a Number from the Call list

Tip: It is also possible to dial a number from the Call list by pressing , selecting a number in the list, and then press "Call" or .

1 Open the menu by pressing the "Menu" soft key.
2 Select .
3 Select "Call list".
4 Select a number.
5 Press or the soft key "Call" to dial. The number can be edited before the call is dialled. Press "More" and select "Edit number". The 25 last received, dialled or missed calls are stored in a call list. See 5.1 *Calls* on page 23.

6.2.5 Dial Last Called Number with Headset Button

If a headset is used, it is possible to press its button[2] to dial the last called number.

6.2.6 Dial the Sender of a Message

It is possible to call the sender of a message stored in the message list.

1 Open the menu by pressing the "Menu" soft key.
2 Select .
3 Select "Inbox".
4 Select message in the message list.
5 Press "View".
6 Press "More".
7 Select "Call sender".

6.2.7 Dial a Number from the Local Phonebook

1 Open the menu by pressing the "Menu" soft key.
2 Select .
3 Select "Call contact".
4 Select contact from list, or search name/number by entering characters and select search.
5 Press "Call" or to make the call.

6.2.8 Dial a Number from the Company Phonebook

1 Open the menu by pressing the "Menu" soft key.
2 Select .

2.See 8.7 *Short Cuts* on page 60 fore more information how to configure the key.
3.The headset button must be configured in the WinPDM.

3 Select "Call contact".

The local and company phonebook appears in the same list, but the company names are indicated by a icon in front of the name. Select contact from list, or search name/ number by entering characters and select search.

4 Press the soft key "Call" or to make the call.

6.2.9 Dial a Name from the Central Phonebook

1 Open the menu by pressing the "Menu" soft key.

2 Select .

3 Select "Central phonebook".

4 Select "Search by name".

5 Enter the first name and/or last name, the whole name does not have to be entered. Press “Search”.

6 Press "Call", or to make the call.

7 Press "Call", or to make the call.

6.2.10 Number Presentation Restriction

If you do not want your name and number to be displayed to the person you are calling, Do the following:

Note: This function can be blocked for use on your extension (programmed by System administrator).

1 Press ***42#** and

Wait for the dial tone

2 Dial the number

Instead of the name and number, the display on the called phone shows **Anonymous**

6.2.11 Last External Number Re-dial

When you make an external call, the system automatically stores the number dialed, regardless of whether the call was successful or not.

To re-dial the last external number dialed:

1 Press *** and (Finland and Sweden **0)

6.3 During a Call

Note: Some of these functions are system dependent. The parameters are set up in the Portable Device Manager WinPDM/CPDM3, see the handset’s Configuration Manual, and Installation and Operational Manuals for WinPDM and CPDM3.

If the handset is configured via WinPDM/CPDM3, it is possible to call a predefined emergency number while the handset/keypad is locked. When calling from a locked handset, it is only possible to access the Microphone on/off function by pressing the soft key "More". However, the entire In Call menu is accessible when calling from a handset with locked keypad.

6.3.1 Adjust the Volume during a Call

Press to increase the volume, and to decrease the volume. The handset will now store and keep the new volume level. It is also possible to use the ^ and v on the navigation key to adjust the volume.

6.3.2 Open Contacts during the Call

1 Press "More" during the call.

2 Select "Contacts".

3 Select "Call contact" for searching a local or company phonebook contact, or select "Central phonebook" for searching a central phonebook contact.

4 Select or search contact.

It is possible to call the selected contact by pressing "Call" or . When calling the contact, the first call will be put on hold. See also 6.3.5 *Start a New Call during Conversation* on page 34.

6.3.3 Turn the Microphone on/off during a Call

1 Press "More" during the call.

2 Select "Microphone off".

3 Press "Select".

The icon indicates a silenced microphone. This means that the other part in an ongoing call cannot hear you. To turn the microphone back on, do as follows:

1 Press "More" during the call

2 Select "Microphone on".

3 Press "Select".

It also possible to turn the microphone off/on by a long press on or .

When long pressing or pressing , a short peep is also heard indicating that the microphone is turned off/on.When pressing in a PTT group call, no beep is heard.

6.3.4 Audio Transfer

To transfer audio between the Bluetooth headset and the handset's earpiece, do as follows:

1 Press "More" during the call.

2 Select "Audio transfer"[4].

3 Press "Select".

6.3.5 Start a New Call during Conversation

1 Press "More" during the call.

2 Select "New Call".

3 Press "Select".

4 Enter the number and press , or "Call".

6.3.6 CallBack

When a call is made to a busy extension, it is possible to automatically call back when the busy extension is free. If you order call back when there is no answer, you will be called back when the extension has been used the next time.:

1 Press "More".

2 Select "Callback"

3 Press "Select".

Note: If **Callback** is not programmed and does not appear when you press "**More"**, you can press **6** to initiate callback, (France, New Zealand and Sweden, Press **5**)

4 Press and wait until the handset alerts.

5 Press to answer when you are called back. The system calls the extension.

6.3.7 Ordering Callback for an external number

If all external lines are busy when you have dialed the external number and pressed , do the following:

1 Press **6** # (France, New Zealand and Sweden, Press **5#)**

2 Press to finish the procedure.

When an external line becomes free you will be called back. You have to answer within eight seconds, otherwise the call back is cancelled. While waiting you can make and receive calls as usual.

3 Press

The system calls the external number.

Cancel a single callback:

1 Press **#37* (**U.S. and Canada, Press **#6***):

2 Dial *extension numbe*r and Press #

Note: To cancel a single callback on a specific external line, dial the digit or digits to get the line instead of the extension number

4.Visible if Bluetooth connection is active.

3 Press

Wait for the call timer to start in the display.

4 Press .to finish the procedure

Cancel all callbacks:

1 Press **#37#** (U.S. and Canada, Press **#6#**)

2 Press

Wait for the call timer to start in the display

3 Press to finish the procedure.

6.3.8 Switch between Calls

Prerequisite, a new call has been started during conversation, see 6.3.5 *Start a New Call during Conversation* on page 34.

1 Press "More" during the call.

2 Select "Switch".

3 Press "Select" to switch to the other call. The first call is on hold.

If needed, repeat the steps above to switch between the calls.

6.3.9 End a Call

Prerequisite, a new call has been started during conversation, see 6.3.5 *Start a New Call during Conversation* on page 34.

1 Press "More" during the call.

2 Select "End Call".

3 Press "Select". This will end the current call and the previous call is resumed.

6.3.10 Transfer a Call

Prerequisite, a new call has been started during conversation, see 6.3.5 *Start a New Call during Conversation* on page 34.

When a caller has two ongoing calls, he/she can transfer the first call to the second call.

1 Press "More" during the call.

2 Select "Transfer".

3 Press "Select" to transfer the current call to the other call.

6.3.11 Transfer to New Call

An ongoing call can be transfered to a new number. When the new call is established, the caller that initiated the transfer will be disconnected.

1 Press "More" during the call.

2 Select "Transfer to new call"[5].

3 Press "Select".

4 Enter the number to the person the ongoing call will be transfered to.

5 Press to transfer the call.

5.Only visible when the parameters "New call" and "Transfer" are defined in the PDM.

6.3.12 Conference Call

Prerequisite, a new call has been started during conversation, see 6.3.5 *Start a New Call during Conversation* on page 34.

By initiate a conference call, an conversation can be made between several participants simultaneously.

1 Press "More" during the call.

2 Select "Conference call".

Press "Select".The person initiating the conference call is the conference leader, and the other are participant members of the conference call.

Note! If **Conference** does not appear when you press "**More"**, you can also do the following to establish a conference: Press **R**, dial the number to include, and press **3.**

6.3.13 Call Waiting

During an ongoing conversation and a short tone for another incoming call appears, do as follows:

1 Press "More".

2 Select "Call waiting"[4].

3 Press "Select". The new call is now connected, and the first call is on hold.

Note: If **Call Waiting** is not programmed and does not appear when you Press "**More"**, you can Press **5** to activate. (France and new Zealand, Press **6**; Sweden, Press **4**)

6.3.14 DTMF

Some systems/PBXs require that the handset sends Dual Tone Multi Frequency (DTMF) when pressing the keys. DTMF can be enabled as follows:

1 Press the soft key "More" during the call.

2 Select "DTMF".

3 Press "Select". This will enable the use of DTMF.

Tip: It is also possible configure the handset to send DTMF when pressing and pressing/ releasing See the handset's Configuration Manual.

6.4 DECT InfoThis submenu is only visible if the Admin menu is activated. See handset's Configuration Manual. Loudspeaking Function

There are several options to activate the loudspeaking function:

- When receiving a call, press the left soft key .
- During a call, press the left soft key .
- This function can also be activated by selecting another answering method, that is, "Automatically" and/or "Loudspeaking". See 8.8.5 *Answering* on page 66.

7 Alarm Operation

The parameters described in this chapter are set in the WinPDM/CPDM3. See the handset's Configuration Manual.

Note: The alarm functionality is applicable for DT423/DT433 only.

7.1 Push-Button Alarm

The push-button can be defined to send an alarm by a long press and by multiple press. By default, long press is defined for test alarm (see *7.1.1 Test Alarm*), and multiple press is defined for personal alarm (see *7.1.2 Personal Alarm*).

7.1.1 Test Alarm

Press and hold the push-button until a dialog window "Test Alarm" (default) is displayed. Depending on set parameters;

- a beep is heard
- the orange LED flashes twice
- the vibrator stirs
- the handset receives a notification that the alarm has been received by the system. This is a system dependent feature.
- if configured, the ALS (see 7.5 *Acoustic Location Signal* on page 38) is activated after the alarm has been sent, or a call is established to a pre-defined number (see 7.6 *Automatic Call after Alarm* on page 39)
- information about the handset's location is sent along with the alarm, see 7.3 *Alarm with Location Information* on page 38.

7.1.2 Personal Alarm

Press the push-button twice or more, the dialog window "Personal Alarm" (default) is displayed. Depending on set parameters;

- a beep is heard
- the orange LED flashes twice
- the vibrator stirs
- the handset receives a notification that the alarm has been received by the system. This is a system dependent feature.
- if configured, the ALS (see 7.5 *Acoustic Location Signal* on page 38) is activated after the alarm has been sent, or a call is established to a pre-defined number (see 7.6 *Automatic Call after Alarm* on page 39)
- information about the handset's location is sent along with an alarm, see 7.3 *Alarm with Location Information* on page 38.

7.2 Man-Down and No-Movement Alarm

Man-down alarm: If the handset is tilted 45 degrees[6] or more for a preset time (default 7 seconds), the Man-down alarm will be triggered.

No-movement alarm: If no movement is detected during a preset time (default 30 seconds), the No-movement alarm will be triggered.

6.The accuracy is -/+10 degrees.

When an alarm is triggered, the following occurs;

- A Man-down warning. Cancel? or No- movement warning. Cancel? dialog window is shown in the display, and a warning tone is also signaling during a period (default 7 seconds) before the alarm is sent.
- To prevent the alarm from being sent and silencing the warning tone, do one of the following:
  - Press any key/button. The alarm will be reset.
  - Put the handset in a charger. The alarm will be temporarily disabled indicated by that the corresponding alarm icon is hidden. The alarm will be enabled when removing it from the charger.
- If no key/button is pressed during the warning tone, the alarm is sent. Depending on set parameters, a beep/vibrator/LED signal confirms that the alarm has been sent.
- Information about the handset's location may be sent along with the alarm, see 7.3 *Alarm with Location Information* on page 38.

See also 8.8.9 *Alarm Settings* on page 67.

7.3 Alarm with Location Information

Information about the handset's location can be sent along with an alarm. The location can be added as follows;

- An approximately location given by the closest Base Station (see the handset's Configuration Manual) or,

Note: This function requires CPDM3

7.4 Alarm with Location Information

Information about the handset's location can be sent along with an alarm. The location can be added as follows;

- An approximately location given by the closest Base Station (see the handset's Configuration Manual)

7.4.1 Alarm with Data

The data must manually be defined and stored by the user, see *Edit Alarm Data* on page 62. It is recommended to add a shortcut for quick access to the "Edit alarm data" menu, see 8.7 *Short Cuts* on page 60.

7.5 Acoustic Location Signal

Depending on set parameters, the ramped up ALS is played after an alarm. The signal is always ramped from the lowest volume to the highest. Press ▢ to turn the ALS off.

Depending on the PDM settings, it is possible to make the user enter a password when turning the ALS off. The password is the same as the phone lock password.

ALS is configurable for Man-down & No-movement alarm, and Push-button alarm. See the handset's Configuration Manual for more information.

7.6 Automatic Call after Alarm

A handset can be setup to call a pre-defined number after an alarm has been sent. It is also possible to dial the number without sending an alarm by pressing a push-button that is not configured with alarm functionality. Depending on the settings, the call can be established in the following modes;

- Loudspeaking mode[7], or
- Normal mode

7.When Bluetooth is enabled, the loudspeaker audio is lowered due to current limitations in the intrinsically safe handset.

8 Menu Operation

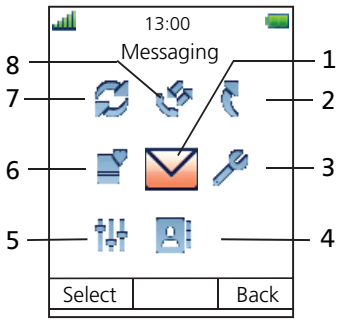


Figure 4. The Main Menu

(1) Messaging
(2) Short cuts
(3) Settings
(4) Contacts
(5) Profiles
(6) Services
(7) Connections
(8) Calls

8.1 Calls

8.1.1 Call List

The 25 last received, dialled or missed calls are stored in a call list. If a number occurs more than once the last time stamp, together with the total number of occurrences, is shown.

Note: If supported by the system, the number's contact name can be displayed in the call list.

Dial number from Call list

1 Enter the menu by pressing the "Menu" soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "Call" or to dial.

View the Time of a Call

1 Enter the menu by pressing the "Menu" soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ⌄ and ⌃ to select number in the list.
5 Press "More".
6 Select "Time of call". The time and date is displayed.

Tip: The duration of the last call is displayed under Call time, see 8.1.3 *Call Time* on page 42.

Edit Number from Call list

1 Enter the menu by pressing the “Menu” soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ∨ and ∧ to select number in the list.
5 Press "More".
6 Select "Edit number".

Save Number

1 Enter the menu by pressing the “Menu” soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ∨ and ∧ to select number in the list.
5 Press "More".
6 Select "Save number".

Send Message

1 Enter the menu by pressing the “Menu” soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ∨ and ∧ to select number in the list.
5 Press "More".
6 Select "Send message".

Delete Entry from the Call list

1 Enter the menu by pressing the “Menu” soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ∨ and ∧ to select number in the list.
5 Press "More".
6 Select entry to delete.
7 Select "Delete".
8 Select "Yes" to delete the entry from the list.

Delete all Entries from the Call list

1 Enter the menu by pressing the “Menu” soft key.
2 Select in the menu.
3 Select "Call list".
4 Step with the ∨ and ∧ to select number in the list.
5 Press "More".
6 Select "Delete all".

8.1.2 Missed Calls

The user can view the missed call(s) by pressing "Yes". If the user presses "No", the missed calls can be viewed as follows:

1 Enter the menu by pressing the “Menu” soft key.

2 Select in the menu.

3 Select "Missed calls".

4 Step with the ⌄ and ⌃ to select number in the list.

5 Press "Call", or to call back.

As in Call List there is a soft key "More" which can be used to view the time/date of the call, edit the received number, add to contacts, and delete received numbers. See 8.1.1 *Call List* on page 40 for information about the functionality in soft key "More".

Note: If supported by the system, the number’s contact name can be displayed in the list.

8.1.3 Call Time

The total time of the previous call and last call is displayed.

1 Enter the menu by pressing the “Menu” soft key.

2 Select in the menu.

3 Press "Select".

Select "Call time".

8.1.4 Push to Talk Group Call

The push-to-talk (PTT) function can be described as a group/conference call to a predefined group of members. If one of the group members wants to get in contact with the others, he/she simply presses and holds to open the microphone.

Note: Some legacy systems/PBXs require that the handset sends a pre-defined DTMF tone when pressing/releasing . See the handset’s Configuration Manual for more information.

In order to participate in the conference, the group members must first accept an invitation received as an incomming call. See 8.1.5 *Accept an Invitation* on page 43.

If a member decline an invitation, he/she can re-join the group/conference later on. See 8.1.8 *Re-join a Group* on page 44.

A user can also invite a group of members to participate in a conference call by calling a PTT group, see 8.1.7 *Call a PTT Group* on page 44.

8.1.5 Accept an Invitation

Accept Invitation Received as Incoming Call

A PTT invitation received as an incoming call is indicated by the icon. In the dialog window, a message containing maximum 24 characters can also be shown. SeeFigure 5

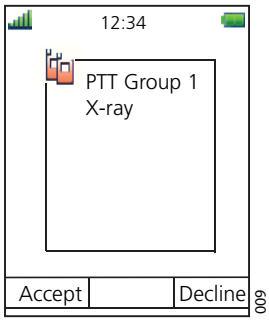


Figure 5. Incoming Invitation Received as a Call.

1 Press “Accept”, or .
Default the handset will start in inverted mute and loudspeaking mode, but it can be configured differently in a PTT group.

2 Press and hold to open the microphone for transmitting. The microphone is muted again when is released.

Note: Some legacy systems/PBXs require that the handset sends a pre-defined DTMF when pressing/releasing .
If DTMF is activated, it is not possible to mute the microphone by releasing during a call. Instead, select More > Microphone off during the call.

Invitation Received as Incoming Call during an Ongoing Call

If a user receives an invitation during an ongoing call, it will be displayed as an ordinary invitation, see Figure 5. The user can either accept or decline the invitation by pressing "Accept" or "Decline", respectively.

Note: It is not possible to accept or decline the invitation by pressing or , respectively.

If the user presses “Accept”, the ongoing call will be disconnected and the PTT call will be connected.

Alternatively, the ongoing call can also be disconnected and the PTT call connected if the following is fulfilled:

- The handset is configured to answer invitations automatically
- The user does not respond to the invitation within 10 seconds

If the user declines the invitation, the he/she can re-join the PTT later on, see 8.1.8 *Re-join a Group* on page 44.

8.1.6 Decline a PTT Invitation

Decline Invitation Received as Incomming Call

Press “Decline”, or to reject a PTT invitation. The handset will return to the previously shown screen. See also 8.1.8 *Re-join a Group* on page 44.

8.1.7 Call a PTT Group

Note: PTT group(s) must be defined in the PDM and Messaging Group(s) in CPDM3 to be able to use this function. See the handset's Configuration Manual, and Installation and Operation Manual for CPDM3.

1 Press "Menu".

2 Select in the menu.

3 Select "PTT groups"[8].

4 Select PTT group.

5 Press "Call", or .

TIP: Alternatively, when in idle mode, press quickly, select PTT group, and press

8.1.8 Re-join a Group

Re-join a Group from Call List

If a PTT invitation was received as a call and the user rejected or missed it, the PTT group can be dialed from the Call list or Missed calls, respectively. The PTT invitation is indicated by the icon in the list. See 8.1.1 *Call List* on page 40, or 8.1.2 *Missed Calls* on page 42.

8.2 Optional Call handling Services

These functions are system dependent and may not be available in your telephony system. Besides the default Call services functions, it is possible to define 10 extra system specific call services - with or without automatic disconnection. The parameters are set up in the WinPDM / CPDM3. Please contact your system administrator.

8.2.1 Absence Handling

The reason for being absent and the return time can be specified here. If you are authorized, you can also enter Absence information for another extension from your own extension.

1 Enter the menu by pressing the "Menu" soft key.

2 Select in the menu.

3 Select "Call services".

4 Select "Absence"[9].

5 Select the applicable absence reason in the list. The number of absence reasons (for example "Lunch", "Meeting", "Trip" etc.) are configured in the WinPDM(CPDM3.

6 Press "Select.

7 Enter time (HHMM) or date (MMDD) depending on the selected absence reason.

8 Press "OK".

The handset sends an absence reason code to the system by establishing a call. The call will automatically be disconnected after a few seconds.

Note: The following procedure can also be used: Press***23*** enter the Absence code **(0-9) Press *,** enter time or date of return (MMDD/HHMM), if requested, Press **#** and press and , (U.S and Canada, Press ***24***).

8.Only available if PTT group(s) is defined in handset via PDM.
9. Only visible if absence reason codes are defined in handset via PDM/CPDM3.

Deactivate the Absence Setting

1 Enter the menu by pressing the “Menu” soft key.

2 Select in the menu.

3 Select "Call services".

4 Select "Absence"[13].

5 Select “Deactivate”.

6 Press "Select".

Note: Following procedure can be used to cancel Absence: Press: **#23#** and Press and (U.S:**#24#**)

8.2.2 Order Absence for Another extension

If you are authorized, you can also enter Absence information for another extension from your own extension.

1 Press ***230*** Dial *Extension number* and Press *****

2 Enter the Absence code **(0-9)**

3 Press * and enter the date or time for when the other person will return

4 Press # and

Wait for the call timer to start for when the other person will return.

5 Press to finish the procedure.

The display on the other person’s extension shows the reason, and if entered time or date of return.

Deactivate Absence for Another extension:

1 Press **#230***

2 Dial *Extension number* and press**#**

Wait for the call timer to start in the display.

Note: If the special dial tone is received. the authorizing code for the other extension is required. Enter the code and press #.

3 Press to finish the procedure.

8.2.3 Divert Internal /External calls

All calls to your extension can be diverted to an internal or external extension of your choice**.**

1 Enter the menu by pressing the “Menu” soft key.

2 Select in the menu.

3 Select "Call services".

4 Select "Divert calls"[10]

5 Select "Internal" or "External".

6 Select "Activate".

7 Enter number to divert to, or press the soft key to enter the call contact list.

8 Press "OK"

10.Only visible if diversion reason codes are defined in handset via WinPDM/CPDM3.

The handset sends a diversion reason code to the system by establishing a call. The call will automatically be disconnected after a few seconds.

To stop diversion select "Deactivate" and press the soft key "OK".

See also 8.2.4 Internal Follow- me and 8.2.5 External Follow- me.

Cancel Diversion

To stop diversion

1 Select "Deactivate".

2 Select the Confirmation button or "OK"

8.2.4 Internal/External Follow-me

Internal Follow-me:

All calls to your extension are diverted to an extension of your choice (within the private network). The phone can still be used for outgoing calls.

Order Internal follow-me:

1 Press * 21 * and enter the *answering position number.* (U.K: *2*)

2 Press # and

Wait for the call timer to start in the display.

3 Press to finish the procedure.

Cancel Internal Follow-me:

1 Press **#21#** (U.K: **#2#**)

2 Press

Wait for the call timer t start in the display.

3 Press to finish the procedure.

External Follow-me

If External Follow-me is allowed, calls to your extension can be diverted to an external number of your choice. The phone can still be used for outgoing calls.

Order External Follow-me:

1 Press ***22#** (U.S and Canada ***23#**)

2 Dial digit or digits to get a line and enter the *external number.*

3 Press **#** and

Wait for the call timer to start in the display.

4 Press to finish the procedure.

Cancel External Follow-me:

1 Press **#22#** (U.S and Canada **#23#**)

2 Press

Wait for the call timer t start in the display

3 Press to finish the procedure.

8.2.5 Free Seating

The free seating function is used for persons who have an office extension number but no telephone set of their own.

Note: Free seating is not supported by IP Dect.

Logging on:

1 Lift the handset and Press ***11***

2 Enter *authorization code* ***** *extension number* **#** and Press

Wait for the call timer to start in the display.

3 Press to finish the procedure.

The display shows your phone number.

Logging off:

1 Press **#11#** and press .

Wait for the call timer to start in the display.

2 Press to finish the procedure.

8.2.6 Personal Number

With the personal numbers and profiles feature you can be reached on your normal office phone number even if you are out of office. A search profile (1-5) can be designed to fit the situation (in office, travelling, at home, and so on). Both internal and external phone numbers can be used in a profile. Your search profile is programmed or modified by system administrator.

Activate or change profile from own extension:

1 Press ***10***

2 Enter the search profile digit **(1-5)**

3 Press # and

Wait for the call timer to start in the display.

4 Press to finish the procedure

Cancelling Personal number:

1 Press **#10 #**

2 Press

Wait for the call timer to start in the display

3 Press to finish the procedure.

8.2.7 Account Code

The account code function is to charge a call to an account number or to prevent unauthorized calls from your phone. The account code can have 1 to 15 digits.

1 Press ***61*** (Finland and Norway, Press ***71*)**

2 Dial the *account code* and press # and

Wait for the dial tone.

3 Dial digit or digits to get an external line or external number.

8.2.8 Parallel Ringing

This feature makes it possible for an incoming call to ring on several phones simultaneously and for the call to be answered on any of the phones. The feature requires all the phones involved to be defined in parallel ringing list, which must be configured and initiated by the system administrator.

To disable the parallel ringing temporarily:

1 Press ***21*** (U.K ***2***)

2 Dial *extension numbe*r and press **#** and press

Wait for the call timer to start in the display.

3 Press to finish the procedure.

Restoring the Parallel ringing, do the following:

1 Press **#21#** (U.K **#2#)**

2 Press

Wait for the call timer to start in the display.

3 Press to finish the procedure.

8.2.9 Intrusion on a busy extension

You can intrude on an ongoing call on a busy extension:

1 Press **4** when you hear a busy tone (France, New Zealand and Sweden: **8)**

Before the intrusion is executed, an intrusion tone is sent to the parties in the ongoing call.

8.2.10 Bypass

If this function is allowed from your extension, you can bypass an activated Diversion, Follow-me or Absence information on a specific extension.

1 Press ***60*** (U.S and Canada, Press ***1***)

2 Dial E*xtension numbe*r and Press # and

Wait for an answer.

8.2.11 Authorization Codes

Authorization codes are used to grant different user groups different levels of access to the telephony system.

There are two types of authorization codes, common and individual,

Authorization code, Common

If you are authorized to use an common authorization code (**1-7** digits) you can change temporarily any phone used within the exchange to the authority level connected to this code. You can use the code for one call only or you can open the phone for some calls and lock it when leaving the phone.

For a single call:

1 Press ***72*** (Germany, The Netherlands, and Sweden, Press ***75***. U.S, and Canada, Press ***6*)**

2 Enter *Authorization code* and Press **#**

3 Press .

Wait for a verification tone.

4 Dial the digit(s) to get an external line.

5 Dial the *external number.*

To open an extension for some calls:

6 Press **#73* (**U.S and Canada, Press **#71*)**Enter A*uthorization code* and press **#** and

Wait for a verification tone.

7 Press to finish the procedure.

To lock an extension:

1 Press ***73*** (U.S and Canada, Press ***71***)

2 Enter a*uthorization code* and Press **#** and .

Wait for a verification tone.

3 Press to finish the procedure.

Authorization Code, Individual

If you are assigned to an individual Authorization code (**1 to 7**, assigned to your own extension) You can lock your own extension to a common authority level, for example when out of the office. You can also temporarily change any other used phone within the exchange to the same authority level as you have on your own phone. The individual code can be changed from your own extension.

To lock your phone:

1 Press ***76***

2 Enter *authorization code* and Press # and .

Wait for a verification tone.

3 Press to finish the procedure.

To make calls while phone is locked:

1 Press ***75*** (Germany, the Netherlands and Sweden, Press ***72***)

2 Enter *Authorization code* and Press **#** and .

Wait for verification tone.

3 Dial the digits to get an external line and the external number

To open the phone:

1 Press **#76***

2 Enter *Authorization code* and press # and

3 Press to finish the procedure.

To assign your own authority level to another phone:

1 Press ***75* (**Germany, The Netherlands, and Sweden, Press ***72*)**

2 Enter *Authorization code* and Press *****

3 Dial your own *extension number* and Press # and

Wait for a verification tone.

4 Dial the digit or digits to get an external line and external number.

To change your individual Authorization code:

1 Press ***74***

2 Enter old a*uthorization code* and Press*****

3 Enter new a*uthorization code* and press # and .

Wait for verification tone.

4 Press to finish the procedure.

8.2.12 DISA

If you are assigned to use this feature and you are working externally, you can call your office and get access to an external line in order to make business calls.

Calling with an Common Authorization code:

1 Call the DISA function at your office.

Wait for dial tone

2 Press ***72***

3 Dial the *Authorization code* and Press **#**.

Wait for dial tone.

4 Dial *External number.*

Calling with an Individual Authorization code:

1 Call the DISA function at your office.

Wait for dial tone

2 Press ***75***

3 Dial the *Authorization code* and Press *****

4 Dial your o*wn external number,* Press **#**

Wait for the dial tone

5 Dial external number.

8.2.13 Group Features

Group Call- pick-up:

People working in a team can have their phones programmed by system administrator to form Call-pick-up groups. In a Call-pick-up group, any member can answer any individual call to group members.

To enable this function do the following:

1 Press **8** (Finland and Sweden: **0**, U.S and Canada, Press **59**)

2 Press to answer.:

Common Bell Group:

Calls are signalled on a common bell.

To answer:

1 Press **8** (Finland and Sweden, Press **0**, U.S and Canada, Press **59)**

2 Press to answer

Group Hunting:

As a member of a group of extensions that is called by a common number, you can temporarily leave the group

To leave the group:

1 Press ***21*** **(**U.K ***2***)**

2 Dial own *extension number*, Press **#** and press

Wait for the call timer to start in the display

3 Press to finish the procedure

Re-enter the group:

1 Press **#21#** (U.K Press #2#)

2 Press

Wait for the call timer to start in the display

3 Press to finish the procedure

8.3 Contacts

The handset has a local phonebook with 250 entries, where names and numbers freely can be added, deleted, and edited by the user. The phonebook lists all names in alphabetical order, where three numbers can be added for each contact; work number, mobile number, and other number.

A company phonebook can be downloaded via the PDM/CPDM3. The local and company phonebook appears in the same list, but the company contacts are indicated by a icon , which means that they are not editable.

It is also possible to access a central phonebook[11], see 6.2.9 *Dial a Name from the Central Phonebook* on page 32, or 8.3.5 *Central Phonebook* on page 53.

8.3.1 Call Contact

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Call contact".
4 Select contact from the list, or enter name or number in the Search field.
5 Press "Call", or .

It is also possible to edit the contact and to send a message by selecting "View" > "More". Note that it is not possible to edit a contact indicated by a icon in front of the name.

8.3.2 Add Contact

Add New Contact

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Add contact".
4 Select "New".
5 Select "Add".
6 Enter a name, see 3.1.2 *Alphanumeric Keys* on page 14.
7 Press "OK".
8 Select "Work Number", "Mobile number", or "Other number".
9 Press "Add".
10 Enter number. It is possible to add a tone "T" or pause "P" in phone numbers by pressing 0 5 times or 7 times, respectively.
11 Press "OK".
12 Press "Save".

Different ring signals can be set to distinguish this contact from another contact by selecting "Ring signal".

Add from Call List

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Add contact".
4 Select "From call list".
5 Select number in the list.
6 Press "Add".
7 Select Work Number", "Mobile number", or "Other number".
8 Press "Add".
9 Enter name, see 3.1.2 *Alphanumeric Keys* on page 14.
10 Press "OK".

11. This function/feature is system dependent.

11 Press "Save".

Different ring signals can be set to distinguish this contact from another contact by selecting "Ring signal".

8.3.3 Edit Contact

Note: It is not possible to edit a company phonebook contact. The contacts are indicated by a icon in front of the name.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Edit contact".
4 Select contact.
5 Press "Edit".
6 Select "Name", "Work number", "Mobile number", "Other number", or "Ring signal".
7 Press "Edit".
8 Enter new name, number and/or select new ring signal.
9 Press "OK".
10 Press "Save".

8.3.4 Delete Contact

Note: It is not possible to delete a company phonebook contact. The contacts are indicated by a icon in front of the name.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Delete contact".
4 Select contact.
5 Press "Delete".
6 Press "Yes" to confirm.

8.3.5 Central Phonebook

In the central phonebook it is possible to search by name or number. The last search result can be displayed.

When the search result is displayed, it is possible to view contact information, add the number to new contact, and to send a message by pressing "More". It is also possible to call the number by pressing "Call".

Search by Name

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Central phonebook".
4 Select "Search by name".
5 Enter First name and/or Last name.
6 Press "Search". The search result will be displayed.

Search by Number

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Central phonebook".
4 Select "Search by number".
5 Enter number.
6 Press "Search". The search result is displayed.

View Last Search Result

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Central phonebook".
4 Select "Last result". Only the last result will be displayed.

8.4 Profiles

It is possible to set up an own profile for incoming calls, message alerts, vibrating alerts, key sound, soft keys etc.This can be useful when there are several users on the same handset, and they want different sound profiles. It can also be used for temporarily settings, for example while in a meeting when incoming calls should be silent. It is easy to switch between the different profiles.

If no profile is selected, the normal settings are used.

Add New Profile

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Add new".
4 Enter name of the profile.
5 Press "Save".
6 Press "More" and then select "Add setting".
7 Select the setting you want to add to the profile.
Repeat steps 6-7 if you want to add additional settings.
8 Mark the wanted setting and press "Edit" to make the changes.

Activate Profile

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select profile from list.

When a profile is activated, the icon an the name of the profile are displayed in idle mode.

Delete Profile

1 Enter the menu by pressing "Menu".
2 Select in the menu.

3 Select profile from list.

4 Press "More".

5 Select "Delete" from menu.

6 Press "Select".

7 Press "Yes" to confirm.

Edit Profile

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select the profile to edited.

4 Press "More" and then select "Edit".

5 Following options can be performed:

- Edit the wanted setting by marking it and then press "Edit".
- Add additional settings by pressing "More" and then select "Add setting".
- Remove a setting by marking it and then select More > Remove setting.

6 If needed, mark the added settings and press "Edit" to make the changes.

8.5 Messaging

When a text message is received, the LED starts flashing green once and the message alert signal sounds. The icon and the content of the received message are automatically displayed. The icon will remain in the display until all new messages are opened. If the message is received during a call, a beep notifies the user.

It is possible to reply, forward the message, call the sender, and call number[12] included in a text.

It is also possible to read the message later by pressing "Close". A received message is stored in the Inbox. See *Read a Stored Message* on page 55.

Tip: If you want to close several new messages quickly, press . The messages will be indicated as unread messages in the Messaging inbox.

The thirty last received messages are stored in the inbox. Time and date information is included in the message.

Tip: New messages and information about incoming calls can be displayed upside down. This can be useful if you wear the handset in a belt and want to read the message/call information without rotating the handset. When pressing any key, the messages will be displayed in the normal way. See the handset's Configuration Manual for more information.

See also 10 *Enhanced Messaging* on page 74 for additional messaging features.

8.5.1 Inbox

Read a Stored Message

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Inbox" to view the message list.

4 Select a message by using the ⌄ and ⌃ on the navigation key.

12.The number must consists of minimum 3 digits.

5 Press "View".

Reply to Sender

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Press "Reply".
7 Enter text. See 3.1.2 *Alphanumeric Keys* on page 14.
8 Press "Send".

Delete Message

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "More".
6 Select "Delete".
7 Press "Yes" to delete the message.

Forward Message

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Press "More"
7 Select "Forward".
8 Enter additional text if needed. See 3.1.2 *Alphanumeric Keys* on page 14.
9 Press "Send".
10 Enter number, or press to access contacts in the local phonebook and the company phonebook.
11 Press "Send" to forward the message.

Call Sender

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Press "More".

7 Select "Call Sender".

Call Number in Text

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Do one of the following:
- Press "More" and select "Call no. in text"[13].
- Press .

7 If the message contains several numbers, select the number to be called from the list.
8 Press "Call", or .

Save Number

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Inbox" to view the message list.
4 Select a message by using the ⌄ and ⌃ on the navigation key.
5 Press "View".
6 Press "More".
7 Select "Save number".
8 Select "Work Number", "Mobile number", or "Other number".
9 Press "Add".
10 Enter name. See 3.1.2 *Alphanumeric Keys* on page 14.
11 Press "OK".
12 Press "Save". The number will be saved in the contact list.

8.5.2 Write New Messages

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Write new message".
4 Enter text. See 3.1.2 *Alphanumeric Keys* on page 14.
5 Press "Send".
It is possible to save the message and send it later by pressing the soft key "Back" and select "Yes". The message will be stored under Unsent messages. See *8.5.3 Unsent Messages*.
6 Enter number, or press to access contacts in the local phonebook and the company phonebook.
7 Press "Send".

13.Visible if the number consists of minimum 3 digits.

8.5.3 Unsent Messages

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Unsent" to view the list.
4 Select message to edit/send.
5 Select "Edit", edit text and/or just select "Send".

Delete/Delete All

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Unsent"
4 Select message in the list.
1 Select "More".
2 Select "Delete" or "Delete all".
3 Select "Yes" if the unsent message(s) shall be deleted.

8.5.4 Sent Messages

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Sent" to view the list.
4 Select message in the list.
5 Press "View".

Forward message

1 Press "Menu".
2 Select in the menu.
3 Select "Sent" to view the list.
4 Select message in the list.
5 Press "View".
6 Enter additional text if needed.
7 Enter number, or press to access contacts in the local phonebook and the company phonebook.
8 Select "Send".

Delete Message

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Sent" to view the list.
4 Select message in the list
5 Press "View".
6 Select "Delete".

7 Select "Yes" to delete the message.

Delete/Delete All

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Sent" to view the list.
4 Select "More".
5 Select "Delete" or "Delete all".
6 Select "Yes" if the message(s) shall be deleted.

8.6 Services

With this menu it is possible to customize your own menu with services/functions that are used often. A list of predefined services/functions are available for example; Write new message, Central phonebook, Call contact, etc.

8.6.1 Add Services

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Add new".
4 Enter a name of the service in the field, and then press "OK"
5 Select a function using ⌄ and ⌃ on the navigation key.
6 If needed, enter values in the fields (only applicable for some of the functions)
7 Press "Back".

8.6.2 Edit Services

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Mark a service using the ⌄ and ⌃ on the navigation key.
4 Press "More"
5 Select "Edit".
6 Edit the service parameters.
7 Press "Back"

8.6.3 Delete Services

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Mark a service using the ⌄ and ⌃ on the navigation key.
4 Press "More".
5 Select "Delete" using the ⌄ and ⌃ on the navigation key, and press "Select"
6 Press "Yes" to delete the service.
7 Press "Back".

8.7 Short Cuts

Predefined functions can be set as short cuts for the Soft Keys, Hot keys, and Navigation keys. It is for example possible to define the Soft Key to make a call or as a short cut to send a message.

8.7.1 Define Soft Keys

1. Enter the menu by pressing "Menu".
2. Select in the menu.
3. Select "Soft Keys".
4. Select "Middle" or "Right".
5. Enter a name for the Soft Key. See 3.1.2 *Alphanumeric Keys* on page 14.
6. Press "OK".
7. Select "Function".
8. Select function from list, and press "Back".
9. Select "Value" (only for some of the functions), and press "Select". Enter a value, for example a number. Press "Back".
10. Select "Control question", and press "Select". It is off by default. Press "Back".
    If the control question is enabled, a Proceed? dialog window is displayed when pressing the defined Soft key. Press "Yes" to proceed.
11. Press "Save".

8.7.2 Define Hot Keys

1. Enter the menu by pressing "Menu".
2. Select in the menu.
3. Select "Hot keys".
4. Select "0", "2" to "9".
5. Select "Function".
6. Select function from list, and press "Back".
7. Select "Value" (only for some of the functions), and press "Select". Enter a value for example a number. Press "Back".
8. Select "Control question", and press "Select". It is off by default.
    If the control question is enabled, a Proceed? dialog window is displayed when pressing the defined Hot key. Press "Yes" to proceed.
9. Press "Save"

8.7.3 Define Navigation Key

1. Enter the menu by pressing "Menu".
2. Select in the menu.
3. Select "Navigation keys".
4. Select "Up", "Down", "Left", or "Right".
5. Select "Function".
6. Press "Select" to select function for the key.
7. Select function from list, and press "Back".

8 Select "Value" (only for some of the functions). Enter a value for example a number. Press "Back".

9 Select "Control question".
It is disabled by default. If the control question is enabled, a Proceed? dialog window is displayed when pressing the defined key. Press "Yes" to proceed.

10 Press "Save".

8.8 Settings

8.8.1 Sound and Alert Settings

Adjust the Ring Volume

Note: An intrinsically safe handset's ring volume is lower than a non-intrinsically safe handset's ring volume due to current limitations.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Sound & Alerts.

4 Select "Volume".

5 Step with › to increase the volume and with ‹ to decrease it. Press "Back" to save the setting.

Set different Ring Signals for Internal Call, External Call and

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Sound & Alerts".

4 Select "Ring signals".

5 Different signals for internal calls, external calls and call back and PTT can be set. Select "Internal call", "External call", or "Callback", or PTT. The handset has 14 different ring signals.

Note: Additional ring signals might be selectable if them are configured via WinPDM/ CPDM3. See the handset's Configuration Manual for more information.

6 Press "Back".

Set Alert for Messages

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Sound & Alerts".

4 Select "Message alert".

5 Select the wanted message alert from the list. By pressing "Play" it is possible to listen to the different alerts.

Tip: The option Custom sound should be used you want to create an own message alert. See the handset's Configuration Manual for more information.

6 Press "Back".

Turn the Vibrator on/off

If the vibrator is activated, it will vibrate at incoming call and message.

Tip: It is also possible to activate the handset's vibrator when receiving a message during a call via PDM. See the handset's Configuration Manual.

Note: When the vibrator is enabled on an intrinsically safe handset, the handset will alternate between vibration and sound. That is, vibration and sound are not activated simultaneously.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Sound & Alerts".

4 Select "Vibrator alert".

5 Select "On", "On if silent" (that is, the vibrator is on when the handset is muted), or "Off"

6 Press "Back".

Set the Key Sound

This means that every time a key is used, the handset gives a small sound.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select “Sound & Alerts”.
4 Select “Key sound”.
5 Select “Silent, “Click”, or “Tone”.
It is possible to listen to the key sound by pressing "Play".
6 Press "Back".

8.8.2 Lock Settings

Activate the Automatic Key lock

Note: It is possible to answer/end a call while the keypad is locked. If the handset is configured via the PDM, it is also possible to call a pre-defined emergency number while the keypad is locked. See handset’s *Configuration Manual.*

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select “Locks”.
4 Select "Automatic key lock".
5 Select "On" for activation of automatic key lock.

Deactivate the Automatic Key lock

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select “Locks”.
4 Select "Automatic key lock".
5 Select "Off" for deactivation of automatic key lock.

Activate the Phone Lock

The handset can be protected for unauthorized use. If this function is activated, a PIN code has to be entered for example to switch on the handset, to answer an incoming call etc. The default phone lock code (0000) can be changed to any 4 - 8 digit personalized code.

Note: If configured in the handset, it is possible to call a pre-defined emergency number while the handset is locked. See the handset’s Configuration Manual. If the DT423 or DT433 is used, it is also possible to use the Alarm button.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select “Locks”.
4 Select "Phone lock".
5 Select “Auto phone lock”.

6 Select “On”, or "On in charger".

7 Enter PIN code

8 Press "OK".

If the PIN code is forgotten it can be removed by your distributor.

Deactivate the Phone Lock

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select “Locks”.

4 Select “Auto phone lock”.

5 Select “Off”.

6 Enter PIN code

7 Press "OK".

If the PIN code is forgotten it can be removed by your distributor.

Change PIN Code

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select “Locks”.

4 Select "Phone lock".

5 Select "Change PIN code".

6 Enter the old PIN code.

7 Press "OK".

8 Enter the new PIN code.

9 Press "OK" and enter the new PIN code again.

10 Press "Save".

8.8.3 Display Settings

Screen Saver

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select “Display”.

4 Select “Screen saver”.

5 Select “Information”, or “Black”. Time and status information will be displayed when "Information" is selected, and the display will turn off when the handset is not used.

6 Press "Back".

Brightness

Note: An intrinsically safe handset’s display brightness is lower than a non-intrinsically safe handset’s display brightness due to current limitations.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select “Display”.

4 Select “Brightness”.

5 Select “Normal” or “Power save”.

6 Press "Back".

Contrast

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select “Display”.

4 Select “Contrast”.

5 Step with › to increase and ‹ to decrease the contrast.

6 Press "Back".

8.8.4 Time & Date Settings

The time and date are received from the DECT system. If the time and date are changed in the system, it takes up to 24 hours before the changes appear in the handset. If the handset is turned off and then turned on, the changes will be applied immediately.

However, it is possible to change the format of the time and date.

Set Time Format

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Time & Date".

4 Press "Select".

5 Select Time format. The actual time format will be displayed. Selectable time format:

- 12:00 (AM/PM)
- 24:00

6 Press "Select" to save the setting.

Set Date Format

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select “Time & Date”.

4 Press "Select".

5 Select “Date format”, press "Select". Selectable date format:

- DD MMM YY, for example 30 Jan 11
- MMM DD YYYY, for example Jan 30 2011
- YYYY-MM-DD, for example 2011-01-30 (ISO 8601)
- MM/DD/YYYY, for example. 01/30/2011 (also called US)
- DD/MM/YYYY, for example 10/01/2011 (also called Europe)
- DD-MM-YYYY, for example 30-01-2011
- DD.MM.YYYY, for example. 30.01.2011

6 Press "Select" to save the setting.

8.8.5 Answering

The default setting for the handset is to use when answering a call. The answering behaviour can be configured to answer the call automatically, that is, without pressing a key, or/and in loudspeaking[14] mode. It is also possible to set the answering behaviour to any key. If "Any key" is selected, any key except , , and can be used to answer a call.

Answering Key

The answering key is by default set to Hook-off.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Answering".’
4 Select "Answering key".
5 Select "Hook-off", or "Any key".
6 Press "Back" to save the settings.

Answering Behaviour

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Answering".’
4 Select "Answer behaviour".
5 Select "Automatically" and/or "Loudspeaking".
6 Press "Change" to change the setting. The check box will be marked.
7 Press "Back" to save the setting. To remove the setting, press "Change". The check box will be unmarked.

8.8.6 Change Text size for Messages

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Messages".
4 Select "Text size Normal". The default text size is "Normal".
5 Select "Normal" or "Large" size.

14.1.When Bluetooth is enabled, the loudspeaker audio is lowered due to current limitations in the intrinsically safe handset.

6 Press "Back".

8.8.7 Change the Menu Language

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select “*Language”.
4 Select the language to be used.
5 Press "Back".

Tip: It is also possible to download an additional language to the handset, see 12.1 *Software Upgrade and Additional Features* on page 76.

8.8.8 Change Owner ID

The Owner ID is set to identify the handset.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Owner ID".
4 Enter name/identity. See 3.1.2 *Alphanumeric Keys* on page 14.
5 Press "Save".

8.8.9 Alarm Settings

Tip: It is recommended to configure a short cut to this menu if it is frequently used, see 8.7 *Short Cuts* on page 60.

Activate alarm

Note: This menu is applicable for DT423/DT433 only.

1 Enter the menu by pressing "Menu".
2 Select in the menu.
3 Select "Alarm".
4 Select "Activate alarm".
5 Select "Man-down", and/or "No-movement".
6 Press "Select" to change the setting. The check box will be marked.
7 Press "Back" to save the setting. To remove the setting, press "Select". The check box will be unmarked.

When an alarm is activated, the corresponding alarm icon is show, see Table 6.

	Man-down alarm
	No-movement alarm

Table 6. Alarms icons

Note: See also the handset's *Configuration Manual* for additional settings and 7 *Alarm Operation* on page 37.

8.9 Connections

8.9.1 Bluetooth

Enable Bluetooth Connection

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Bluetooth".

4 Select "Enable". A Bluetooth connection icon will be displayed in the header bar.

Note: When enabling Bluetooth on an intrinsically safe handset, it will be restarted.

Disable Bluetooth Connection

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Bluetooth".

4 Select "Disable".

Note: When disabling Bluetooth on an intrinsically safe handset, it will be restarted.

Pair/Connect Bluetooth Headset

In order to use a Bluetooth headset, it must first be paired with the handset. It is only needed to pair the Bluetooth headset once. A paired Bluetooth headset will automatically be connected indicated by the icon ■ in front of the headset.

1 Set the Bluetooth headset in pairing mode, see the user manual for the Bluetooth headset.

2 Enable Bluetooth, see *Enable Bluetooth Connection*.

3 Enter the menu by pressing "Menu".

4 Select in the menu.

5 Select "Bluetooth".

6 Select "Headset".

7 Select "Add new". A Put headset in Pairing mode dialog window is displayed.

8 Press "OK". It will now search for a Bluetooth headset for connection.

9 When headset is found, press "Pair".

10 If needed, enter PIN code, see user manual for the Bluetooth headset. Press "OK".

The dialog Successful pairing appears if the pairing process was successful. The Bluetooth headset will also be connected indicated by the icon ■ in front of the headset.

Tip: It is possible to configure the headset button with a specific function, such as post-dial, dial last called number, or dial a predefined number. See the handset's Configuration Manual for more information.

8.9.2 Headset

In order to achieve optimal audio quality with the different headset types, it is recommended to select the corresponding headset type.

The default setting is microphone on a boom, that is, the audio is optimized for using a headset with microphone on a boom. The headset type can be changed in the menu by doing as follows:

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "Headset".

4 Select the corresponding headset type from list, that is, "Mic on boom", or "Hearing protection". Additional headsets[15] might be visible in the list.

5 Press "Select".

Tip: It is possible to configure the headset button with a specific function, such as post-dial, dial last called number, or dial a predefined number. See the handset's *Configuration Manual* for more information.

Note: When Bluetooth is disabled and having an active call in loudspeaker mode on an intrinsically safe handset, the audio will not be transferred to the headset when connecting it.

IMPORTANT: The headset Microphone on a boom is not available as accessory for the intrinsically classified handset. If used, it is NOT permitted to use the headset in hazardous areas.

8.9.3 System

The handset can subscribe up to eight different systems.

Change System

Select "Automatic" or a specific system. If the handset is set to "Automatic", it selects a system according to the priority list, see *Priority* on page 70.

Subscribe System

To subscribe a system, the "Park:" (Portable Access Right Key) and "Ac:" (Authentication code) related to the system are needed. Contact the system administrator for more information.

Note: The PARK code may not be needed if there is no alien DECT system within the coverage area.

1 Enter the menu by pressing "Menu".

15.Only visible if a headset profile has been configured in the PDM.

2 Select in the menu.

3 Select "System".

4 Select "Subscribe".

5 The handset's IPDI is displayed. The IPDI is a unique code that has been assigned to the handset. Press "Next".

6 Enter System name (optional). If no system name is entered, the default name will be used. That is System A, System B etc. depending on which system name that is free.

Note: The System name might not be displayed depending on the handset's Display Management Layout setting. See the handset's Configuration Manual.

7 Press "Next".

8 Enter PARK code (max. 31 digits). The PARK code may not be needed if there is no alien DECT system within the coverage area.

9 Enter AC code. The AC code length must be between 4 - 8 digits.

10 Press "Next".

11 An information text "Protection on?" is displayed. Select "Yes" if the new system is to be protected. It is not possible to delete a protected subscription from the System menu[16].

12 Press "OK". A searching mode starts.

Unsubscribe System

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "System".

4 Select "Unsubscribe".

5 Select the system to unsubscribe.

6 Press "Yes to unsubscribe the system.

Rename System

It is possible to change the name of the system in the handset.

1 Enter the menu by pressing the "Menu" soft key.

2 Select in the menu.

3 Select "System".

4 Select "Rename System".

5 Select system to rename.

6 Enter new name.

7 Select "Save".

Priority

The default order of priority is the order of entered subscriptions. This means that the first subscribed system has the highest priority. This list can be edited by the user. It is possible to set the systems in priority by moving them up or down in the list.

16.It is not possible to unsubscribe a protected system via the System menu. The unsubscribtion must be made via the Admin menu or the DECT system.

Note: This is used in combination with system set to be "Automatic", see *Change System* on page 69.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "System".

4 Select "Priority".

5 Change the priority if needed by selecting "Up" or "Down". The priority will be saved when "Back" is selected.

8.9.4 In Charger Action when in Call

It is possible to determine actions to be performed when a handset is placed in charger during a call.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select "In charger".

4 Select "Call behavior".

5 Select one of the following:

- No action - no action will be performed when handset is placed in charger during a call.
- Loudspeaking - The loudspeaker will be activated when handset is placed in charger during a call.
- End call - The call will be disconnected when handset is placed in charger.

8.9.5 In Charger Action when not in Call

It is possible to determine actions to be performed when a handset is not in call and placed in charger.

Note: Additional In charger actions can also be configured, see *the handset's Configuration Manual*.

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select “In charger”.

4 Select "Other actions".

5 Select one of the following:

- No action - no action will be performed when handset is not in call and placed in charger.
- Switch off - When the handset is placed in the charger it will switch off. When it is removed from the charger it will switch on again.
- Sound off[17] - When the handset is placed in the charger it will be muted. When it is removed from the charger it will switch on the sound again.
- Redirect - Calls can be redirected to another extension when the handset is placed in a charger. This function must be programmed in the PBX to be able to redirect calls.
- Change profile - when the handset is placed in the charger it will change profile. When the handset is removed from the charger, the profile is changed back.Press "Edit" and select the wanted profile. By default only the profile Normal is selectable,

17.If the parameter Disable permanent mute is enabled in WinPDM, the handset will not be muted in charger.

but additional profiles will be visible if they are configured. See 8.4 *Profiles* on page 54.

9 Advanced Functions

9.1 Admin Menu

The handset has a hidden menu for system administrators. See *the handset's Configuration Manual*.

The Admin menu contains:

- Software, hardware, IPEI/IPDI, and user ID
- DECT information
- Centralized Management showing online information
- Site Survey Tool for indication of radio signal and base station listing
- Fault logging
- Frequency band selection[18]
- System menu with ability to alter protection
- Factory reset option

For quick access to the Device Information (DI) menu in idle mode, press the keys containing *#DI# (that is *#34#). For quick access to IPEI/IPDI, press *#06# in idle mode. See the table below.

Information	**Code**
Software version	*#34#
Hardware version	*#34#
IPEI/IPDI	*#34# or *#06#
User ID	*#34#

9.2 Clear Lists in Charger

Via PDM/CPDM3 it is possible to set a parameter that will clear messaging lists and call lists that has been stored in the handset. When the parameter is activated and the function has been downloaded to the handset, the lists will be deleted when placed in a charger. This can be useful during administration of handsets for new users. See also the handset's Configuration Manual.

18.This option will be removed when the frequency band has been set.

10 Enhanced Messaging

10.1 Voice Mail

Note: This feature is only available if configured in the system.

10.1.1 Receive a Voice Mail

When receiving a voice mail, the content of the voice mail notification is displayed automatically on the screen, and is also indicated by the icon in the status bar.

If the content of the notification is displayed, press "Call" to dial the voice mail. If "Close" is selected, it is possible to dial the voice mail by a long press 1 in idle mode, or from the Inbox menu.

Information is stored in the “Messaging” inbox until all voice mail messages have been listened to. See *10.1.2 Check the Voice Mail inbox*.

10.1.2 Check the Voice Mail inbox

1 Enter the menu by pressing "Menu".

2 Select in the menu.

3 Select “Inbox”. The voice mail will be displayed first in the inbox list.

4 Select the message with the icon in front of the message (a voice mail is always displayed first in the inbox list). Only one voice mail at the time will be displayed, even if there are more voice mail messages in the message list.

5 Press "View".

6 Press "Call", or .

10.1.3 One Key Voice Mail Access

A long press on 1 in idle mode will call the voice mail. If the extension number is not available, a dialog window "Voice mail number not defined" is displayed.

Some systems require that the mailbox extension number is downloaded to the handset, see *the handset’s Configuration Manual*.

10.2 Mobile Data

10.2.1 Send Mobile Data

It is possible to send predefined data from the handset by selecting a Service, see 8.6 *Services* on page 59. In addition, a short cut can be created for quick access to a Service, see 8.7 *Short Cuts* on page 60

Mobile data can be used for opening a door, starting/stopping a machine etc.

10.2.2 Send Mobile Data with a Prefix

Mobile data with a prefix is sent from the handset by pressing a pre-programmed Hot key or Soft key or select a Service. Mobile data with prefix can be used to send information to an application in the system.

The prefix is predefined by the user when programming the Service, see 8.6 *Services* on page 59.

11 Operation Notice

11.1 Accessibility and Voice Quality

The base network is not always available. If you do not get in contact with your system, contact your system administrator. For best voice quality, avoid positioning near computer, radio or similar equipment.

Operating Area

You can only use the handset in the area that is covered by your system. Outside this area you will loose contact with the system. The signal strength icon will be low and “Searching” will be displayed.

Out of Range

When you leave the system's coverage area a short beep will sound and the text “Searching” will appear in the display.

The out of range beep will be repeated every minute for 30 minutes. It is possible to turn the sound off by long pressing, , or .

When re-entering the coverage area it can take a couple of minutes before the handset automatically has registered into the system.

12 System Handling

12.1 Software Upgrade and Additional Features

Software and parameters in the handset can be upgraded by using the PDM/CPDM3. Examples of additional features that can be downloaded/configured via PDM/CPDM3:

- Company phonebook
- Downloadable languages
- Customizing the Menu Tree

Refer to the handset's *Configuration Manual*.

To view the handset's software version, enter *#34# in idle mode.

13 Maintenance

13.1 Maintenance of Batteries

13.1.1 Battery Warnings

The "Low battery" icon is displayed when the battery has 10% or less remaining capacity left. In addition; a warning signal sounds every minute, the LED flashing orange, and the dialog window "Battery low. Charge now." appears.

The "Empty battery" icon is flashing when the battery has 5% or less remaining capacity left. In addition; a warning signal sounds every second, the LED flashing red, and the dialog window "Battery empty. Shutting down." appears.

During a call, only the corresponding battery warning signal will notify the user. The warning signal cannot be silenced during a call. When not in call, the warning signal can be silenced by pressing # or .

13.1.2 Charge the Battery

Place the handset in the desktop charger or in the rack charger. The battery is being charged when the LED on the handset is steady orange. When the battery is fully charged the LED will be green.

An animated battery icon is also shown in the display indicating charging by starting with its current charge and ending with the full charge. A filled battery icon indicates a fully charged battery.

Note: Only use the prescribed chargers for charging.

13.1.3 Charge Spare Batteries

Spare batteries can be charged with a separate battery pack charger. It can charge six batteries at the same time.

IMPORTANT: It is not permitted to charge intrinsically safe batteries using the battery pack charger.

13.1.4 Replace the Battery

If the standby time for the handset becomes too low, the battery should be replaced by a new one. Please contact your system administrator or your supplier, for information about new batteries. Attach the battery as described in figure 6 on page 81. It is attached inside the battery lid and is connected to the handset in such a way that no miss-contact is possible.

Note: Use the battery pack opener to untight the screws on the intrinsically safe handset.

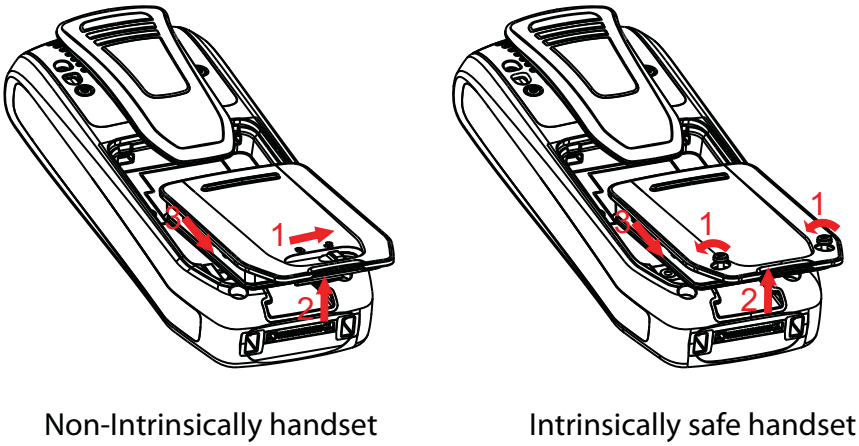


Figure 7. Replaceable battery. Unlock the lid/untighten the screws and remove the battery according to the illustration.

13.2 Easy Replacement of Handset

Easy replacement can be used if a handset needs to be replaced due to, for example, a broken display. The easy replacement procedure is done via the handset display and the DC4 Advanced Desktop Charger, or the CR3 Charging Rack.

The following settings are replaced during easy replacement:

- DECT registration
- User parameters (including User ID)
- Contacts
- The extension number is assigned to the new handset.

The following settings are not replaced during the easy replacement:

- Call list
- Messages
- Bluetooth pairing list

13.2.1 Before Starting Easy Replacement Procedure

1 Check that both the old handset (that is, the handset to be replaced) and the new handset (that is, the replacement handset) are of the same device type (for example DT413).

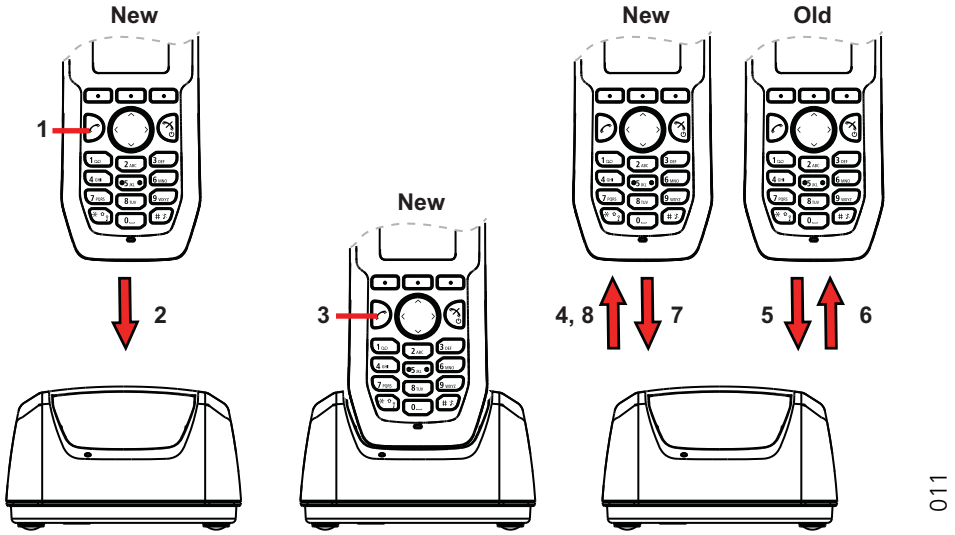
2 Make sure that the handset batteries are charged before starting the easy replacement procedure.

3 Switch off the new handset by long pressing .

13.2.2 Easy Replacement Procedure

During the Easy Replacement procedure, the LEDs of the handset and the charger follow the same LED indications. This means that if the old handset has a broken display, the LED indications on the charger and on the handset can be used to follow the replacement procedure. Before and after easy replacement, the LEDs may have different LED indications. For more details, see *LED Indications during Easy Replacement* on page 80.

IMPORTANT: Never remove a handset from the charger until the instructions in the display or the LED tells you to do so (see status on the LED if the display is broken). If there is an error indication it may be allowed to remove the handset, see 14 *Troubleshooting* on page 83 for further instructions. After the old handset has been in the charger, the new handset needs to be placed in the charger regardless if the replacement was successful or not. Failing to do so may result in malfunction and the new handset will need to be sent for service.



1 On the new handset, press and hold

Note: Do not release until you are instructed to do so.

2 Put the new handset in the charger.

3 When the text "Start phone replacement?" is displayed, release .
Press "Yes" (left soft key).
The text "Follow the instructions. Each step can take several minutes." appears in the display. Press "OK" (left soft key).

4, 5 When the text "Please insert old phone in charger" is displayed, replace the new handset with the old handset. The handset can either be switched on or off.

Note: If the CR3 Charging Rack is used, the left charging slot must be used for both handsets.

The handset will be restarted and after a few seconds, the text "Saving settings. Do not remove phone from charger" appears. The charger LED changes to slow orange flashing. It may take several minutes.

IMPORTANT: If the old handset cannot communicate with the charger, put the new handset in the charger to restore its settings (that is, the handset's IPDI). If this step is not performed, the new handset must be sent for service. The old handset's settings might be transfered to the new handset by using PDM. See the handset's Configuration Manual.

6, 7 When the text "Please insert new phone in charger" is displayed, replace the old handset with the new handset. The text "Restoring settings" is displayed.

IMPORTANT: Do not remove the handset while the text "Restoring settings" is displayed

8 When the text "Phone successfully replaced. Please remove phone to restart." appears in the display, remove the handset from the charger. The handset is automatically restarted.

LED Indications during Easy Replacement

The following table shows the LED indications that are used for the handset and the charger during the easy replacement procedure.

LED indication	Description
Orange, flashing (1 000 ms on, 1 000 ms off)	File transfer during Easy Replacement.
Orange, flashing (100 ms on, 800 ms off)	“Change phone” indication during Easy Replacement.
Red, flashing (100 ms on, 800 ms off)	Error indication during Easy Replacement. Put back new handset in charger.
Red, flashing (900 ms on, 100 ms off)	Error during Easy Replacement. Service needed for both handsets.

13.3 Attach the Hinge-type Clip

Attach the hinge-type belt clip as described in Figure 8.

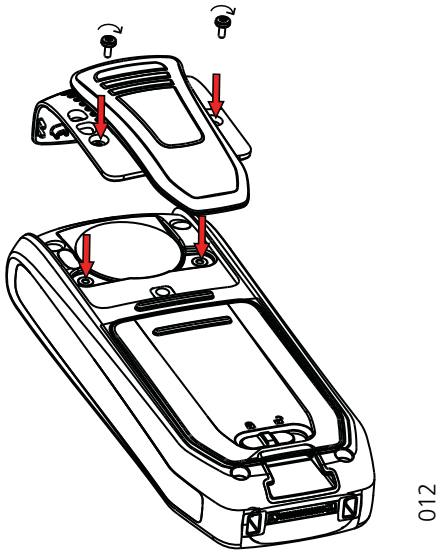


Figure 8. Screw the hinge-type clip into position.

13.4 Attach the Swivel-type Clip

Attach the swivel-type belt clip as described in Figure 9.

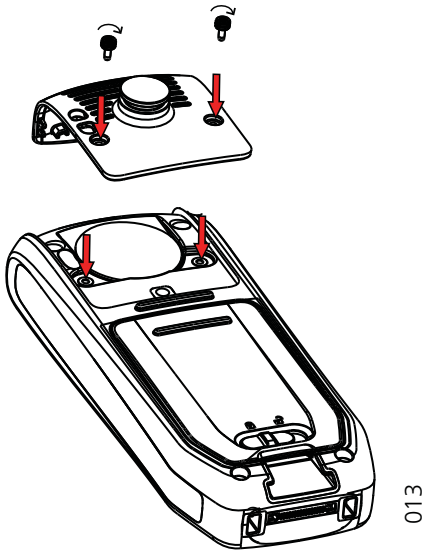


Figure 9. Screw the swivel-type clip into position.

13.5 Attach Cover for No Clip

Attach the enclosed cover as described when no clip is to be used.

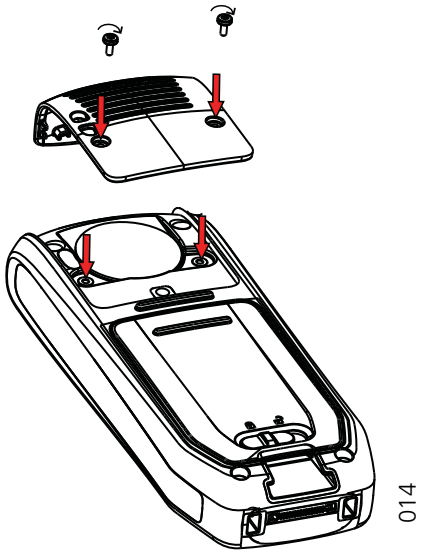


Figure 10. Screw the cover into position.

14 Troubleshooting

This section contains information on how to solve common operational problems, and warnings you may receive.

Go through the following lists if you encounter any problems. If this checklist does not solve the problem, contact your system administrator.

If others have similar problems, there may be a system error.

Operational Problems

Fault	Probable cause	Action or comment
No display	The battery level is low or the handset is defective.	Charge the battery or contact system administrator.
No ringing	The sound off icon is on, or ringer volume set to silent, or the handset is defective.	Long press the Sound off key, or increase volume, or contact system administrator.
No change in time & date setting	PBX dependent.	Changes in the handset appear after a maximum of 24 hours after a change in the system or by turning the handset off and on again.

Error or Warning Messages

Display shows	Probable cause	Action or comment
No access	The network is in range, but no access rights.	Switch handset off and then switch it on again or contact system administrator.
No System. The handset beeps once a minute (during max 30 minutes) with a low tone followed by a high tone (if enabled, the vibrator also follows the beeps).	The handset is out of coverage or handset is defective.	Stop the beep with the Sound off key and go into range. Note: When re-entering the coverage area it can take a couple of minutes before the handset automatically has registered into the system. or contact system administrator.
No flash driver was found **Note:** This display message is only shown in English.	Failed to read from flash	Send the handset for service.
SERVICE NEEDED Hardware error **Note:** This display message is only shown in English.	There is a communication problem between components in the handset.	Restart the handset. If the problem persists, send the handset for service.

SERVICE NEEDED Invalid IPDI **Note:** This display message is only shown in English.	Easy replacement procedure not followed correctly or failure during easy replacement procedure.	Send the handset for service.
SERVICE NEEDED Parameters corrupt. **Note:** This display message is only shown in English.	The handset is defective.	Select reset option on the middle soft key if available or if no reset option is available or fault does not resolve the handset needs repair. Note: Display message only shown in English.
Enter PIN code	The handset's lock is activated.	Enter the required PIN code. If PIN code lost enter new via PDM or do a factory reset via PDM.
Battery low, charge now	The battery level is low.	Charge or replace the battery.
Phonebook is not available at the moment.	The phonebook does not respond, not available at the moment.	Try again later or if fault persists do a factory reset via admin menu or PDM.
Voice mail number not defined	There is no Voice mail number defined in the handset.	Define a Voice mail number via PDM.
Could not encrypt connection	The parameter "Encryption Required" is enabled in the handset in combination with; 1) Unencrypted base station(s); and/or, 2) Unsupported base station(s).	1) Disable the "Encryption required" parameter in handset via PDM; and/or, 2) Enable the encryption in the base station(s); and/or, 3) Use supported base station(s). Ask your supplier.
Not allowed	2) The extension (User) does not exists. 3) The password is not correct.	2) Make sure that you entered correct extension. If needed, contact the system administrator. 3) Make sure that you have entered correct password. Ask the system administrator if you have forgot the password.

LED Error Indications

See also chapter *LED Indications during Easy Replacement* on page 80.

LED is flashing red, quick flash, (100 ms on, 800 ms off)

1) If a third handset, that is another handset than the "old" (the replaced handset) and "new" (the replacement handset) handset, is inserted into the charger during Easy Replacement, this error indication appears. Change to the correct handset.

2) The charger has found that Easy Replacement does not work. Change back to the "new" handset.

LED is flashing red, long flash (800 ms on, 100 ms off)

Error during Easy Replacement. Both handsets need to be sent for service.

Appendix A: Bluetooth Headset

A.1 Introduction

Bluetooth technology replaces the cord between the handset and the headset. This allows the user to move more freely and eliminates the risk of a headset cord getting stuck.

Bluetooth is optional to the handset to be able to use a Bluetooth headset. The Bluetooth is factory mounted on the handset's circuit board.

Bluetooth supported functions:

- Pair the handset with it's headset
- Chose which device to use when making a call
- Play ring signal in the Bluetooth headset
- Answer and connect sound to the Bluetooth headset when answering with the headset's button.
- End call with the Bluetooth headset's button
- Transfer audio to/from Bluetooth headset during call, using the menu in the handset.
- Increase/decrease the volume in the Bluetooth headset with the volume buttons on the handset.

A.2 Icon

See 3.1.3 *Icons and Text in the Display* on page 14.

A.3 Wear

For optimal performance wear the Bluetooth headset and the handset on the same side of your body. The best audio quality in the headset is achieved when no obstructions, including your body, are between the headset and the handset.

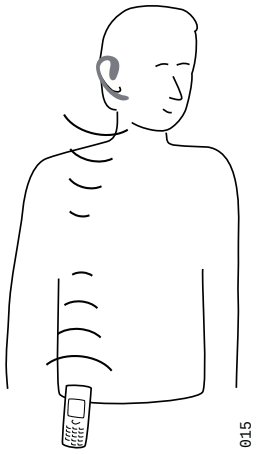
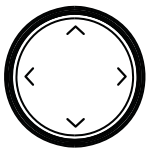


Figure 11. Wear the headset and the handset on the same side of your body.

A.4 Operation



Step between the menus with the navigation key. Confirm each menu selection by pressing the Soft key "Select".

A.4.1 Enable Bluetooth

To enable the Bluetooth function enter in the handset menu, select "Bluetooth" and select “Enable”.

Note: When enabling Bluetooth on an intrinsically safe handset, it will be restarted.

A.4.2 Pair and Connect a Bluetooth Headset

Before a headset can be used, a connection (pairing) between the headset and the handset must be established.

1 Place the Bluetooth headset and the handset next to each other.

2 Enable Bluetooth, see *A.4.1 Enable Bluetooth*.

3 Put the Bluetooth headset in pairing mode, see the user manual for the Bluetooth headset.

4 Enter the menu by pressing "Menu".

5 Select in the menu.

6 Select "Bluetooth".

7 Select "Headset".

8 Select "Add new". An information text "Put headset in Pairing mode" is displayed.

9 Press "OK". It will now search for a Bluetooth headset for connection.

10 When headset is found, press "Pair".

11 If needed, enter PIN code, see user manual for the Bluetooth headset. Press "OK".

The dialog Successful pairing appears if the pairing process was successful. The Bluetooth headset will also be connected indicated by the icon ■ in front of the headset.

A.4.3 Add another Bluetooth Headset

Up to eight Bluetooth headsets can be paired to the handset, but only one at a time can be selected. To pair another headset repeat section “Pair and Connect a headset” steps 1-6.

The paired headsets are displayed by a default name in the handset menu “Headset”. See *A.4.6 Change the name of Bluetooth headset*

A.4.4 Select a Bluetooth Headset

To activate a Bluetooth headset, enter in the handset menu, select “Bluetooth” > “Headset”. Step with the navigation key, ⌄ and ⌃ to the headset to be selected and press "Select". Connection successful is displayed. The headset is now selected.

When a new headset has been selected any previous headset will automatically become disconnected.

A.4.5 Remove a Bluetooth Headset

To remove a Bluetooth headset, enter in the handset menu, select Bluetooth > Headset. Step with the navigation key, ⌄ and ⌃ to the headset to be removed and press "More". Select "Delete". Confirm with "Select".

A.4.6 Change the name of Bluetooth headset

The name, in the headset list, of the headset is the default name for the headset.

To change the name enter in the menu, select “Bluetooth” > “Headset”. Step with the navigation key, ⌄ and ⌃, to select the headset. Select "More" > “Edit name”. See 3.1.2 *Alphanumeric Keys* on page 14.

A.5 Calling

A.5.1 Make a Call

Dial the number on the handset and press "Call", or . When “Transfer call to phone?” is displayed press "No" or ignore the message to use the Bluetooth Headset. Press "Yes" to use the handset.

A.5.2 Answer a Call

A ring signal sounds in both the selected Bluetooth headset and the handset to signal an incoming call.

To answer the call in the Bluetooth headset, press the button[19] on the headset.

To answer the call in the handset, press on the handset.

A.5.3 End a Call

To end the call press the button[17] on the headset, or on the handset.

A.6 Volume/Mute Control

A.6.1 Adjust the Volume During a Call

Depending on the Bluetooth headset it might be possible to adjust the volume on the headset[17]. On the handset, press ⌃ to increase the volume and ⌄ to decrease the volume in the headset.

A.6.2 Turn the Microphone On/Off During a Call

Mute both headset and handset by pressing # ♪ or on the handset.

A.7 Messaging

When a text message is received a beep sounds in the Bluetooth headset.

19. For instruction, see headset manual.

A.8 Transfer a call

A.8.1 Transfer a Call to the Handset

To transfer a call to the handset from the Bluetooth headset, press "More" on the handset during the call, and select “Audio transfer”.

If supported by the headset, it is also possible to transfer a call to the handset with by pressing the headset button.

A.8.2 Transfer a Call to the Bluetooth Headset

To transfer the call to the Bluetooth headset, press "More" on the handset during the call, and select “Audio transfer”.

It is also possible to transfer a call to the Bluetooth headset by pressing the button[20] on the Bluetooth headset.

A.9 Switch to a Headset with Cord

If a headset with a cord is connected during a call, the call is transferred to this headset automatically.

A.10 Menu Tree

See 8.8 *Settings* on page 61.

A.11 Operation Notice

A.11.1 Accessibility and Voice quality

Bluetooth uses the frequency of 2.45 GHz. WLAN, microwave oven, and other devices that use the same frequency can disturb the use of a Bluetooth headset.

A.11.2 Operation Area

Maximum distance between the headset and the handset is 10 metres. The communication distance between the handset and headset may vary considerably due to the environment and disturbances from other 2.45 GHz equipment. Different headsets can also give different communication distances.

A.11.3 Out of Range

If a connection cannot be made with the selected Bluetooth headset, the call is transferred automatically to the handset.

If the Bluetooth headset and the handset get out of range from each other, the connection is temporarily lost. Since the last connected headset is always considered "selected", the connection is automatically established again when a call is made or received. In case of more than one paired headset in list, the preferred headset used for calls, is always first in list.

20. For intruction, see the headset manual.

A.12 Environmental Requirements

A.12.1 Bluetooth Headset Battery

See the manual for the Bluetooth headset.

A.13 Trouble Shooting

Problem	Reason	Solution
No headset found	Headset is turned off	Turn on headset
	Headset is out of battery	Charge headset
	Headset is out of range	Move headset closer to handset < 10 metre.
	Headset is not in pairing mode	Turn headset into pairing mode (see headset manual for details)
Pairing fails	Headset is not in pairing mode	Turn headset into pairing/ discoverable mode (see headset manual for details)
	Incorrect PIN entered	Try again and enter correct PIN (see headset manual for details)
Connecting fails/Failed to connect headset	Headset is not turned on	Turn on headset
	Headset is out of range	Move headset closer to handset
	Link key in headset has been deleted	Repeat pairing procedure
	Headset is already connected to another handset	Disconnect headset from the other handset
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.
Headset can not connect to handset (see headset manual for details on how to connect)	Handset is not turned on	Turn on handset
	Handset is out of range	Move handset closer to headset
	Bluetooth module is disabled	Enable "Bluetooth" in Bluetooth menu
	Another headset is already connected to the handset	Disconnect the connected headset
	Link key is missing in either headset or handset.	Repeat pairing procedure
	Too close to disturbing devices.	Disturbing devices can be WLAN equipment, microwave etc.

Appendix B: Telephony Function Codes

This chapter describes the country specific function codes used in MX-ONE/Aastra 700 that are relevant for the cordless phone. The codes are listed in standard and alternative codes.

Service codes are entered as **[code] # for activation, and # for deactivation.*

Table 1

Functions	**Codes**	
Suffix digits (only for SIP)	**Standard**	**Alternative**
Alternation on Inquiry	N/A	Sweden: R
Conference	3	
Intrusion	4	France: 8 New Zealand: 8 Sweden: 8
Call Waiting Indication	5	France: 6 New Zealand: 6 Sweden: 4
Call Back	6	France: 5 New Zealand: 5 Sweden: 5
Common Parking or Individual Call Pick-up	8	France: 4 New Zealand: 4 Sweden: 6
Feature Codes		
General Deactivation	001	U.S. and Canada: 0
Choice of Language	08	
Ordering or Cancellation of Active List (Personal Number)	10	
Follow Me	21	United Kingdom: 2
External Follow Me	22	U.S. and Canada: 23
Ordering or Cancellation of Interception Message	23	U.S. and Canada: 24
Print Interception Message	26	Sweden: N/A
Manual Message Waiting	31	
Cancellation of Message Waiting	31	U.S. and Canada: 56
Automatic Call Back, Cancellation	37	U.S. and Canada: 6
Malicious Call Tracing	39	

Calling Line Identification Restriction Per Call	42	
By-pass of Diversion	60	U.S. and Canada: 1
Account Code Predialing	61	Finland: 71 Norway: 71
Authorization Code Predialing	72	Germany: 75 The Netherlands: 75 U.S. and Canada: 6 Sweden: 75
Lock/Unlock Common Authorization Code	73	U.S. and Canada: 71
Change Individual Authorization Code	74	
Dial With Individual Authorization Code	75	Germany: 72 The Netherlands: 72 Sweden: 72
Lock/Unlock Individual Authorization Code	76	
Customer Identity Storage	77	
Answer on Group Call Pick-up, and Answer on Night Time Connection (* and # in the service code can be excluded)	8	Finland: 0 U.S. and Canada: 59 Sweden: 0
Ordering of Night Time Connection	84	U.S. and Canada: 8
Repetition of the Last External Number Dialed	***	Finland: **0 Sweden: **0